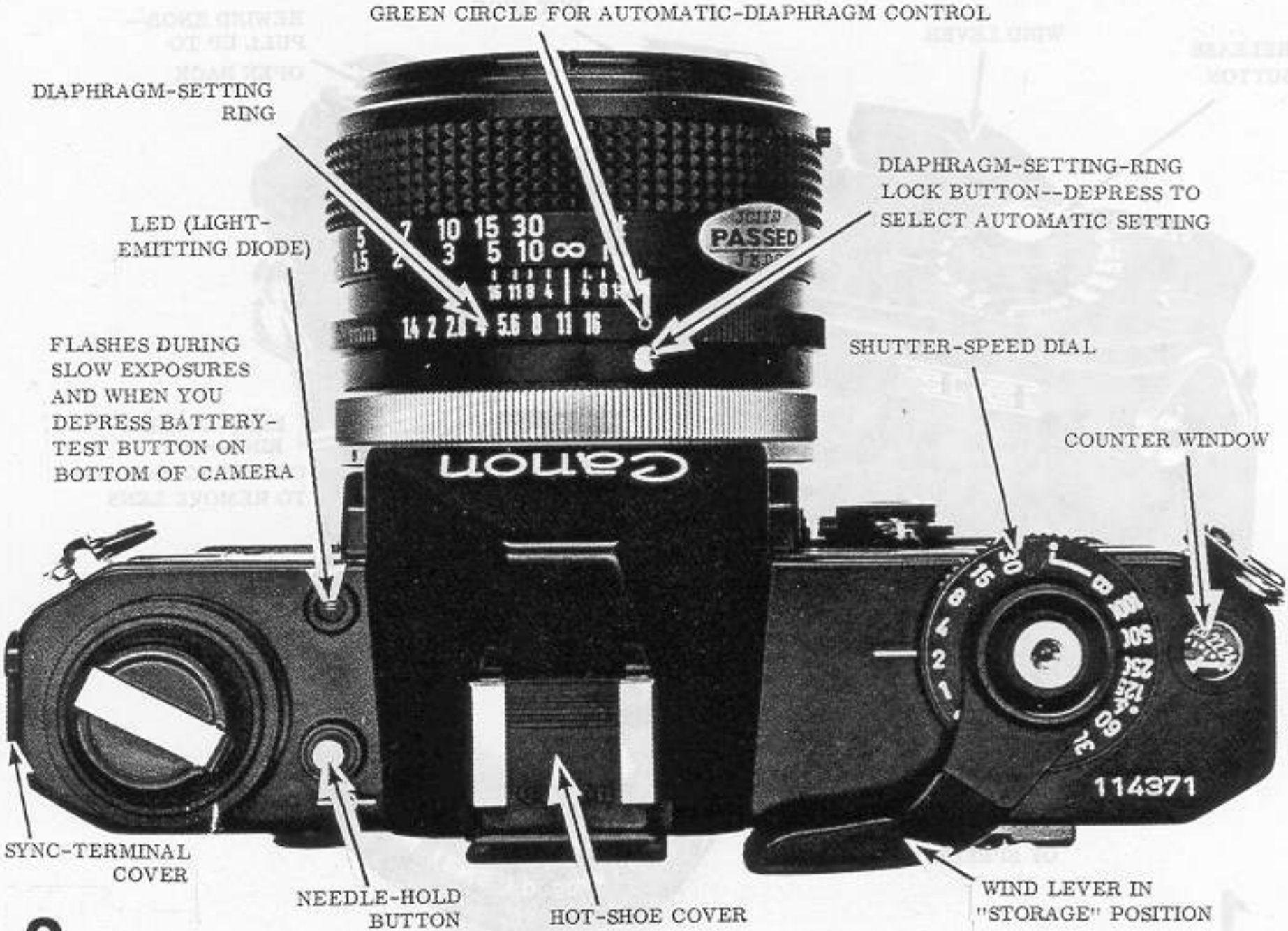
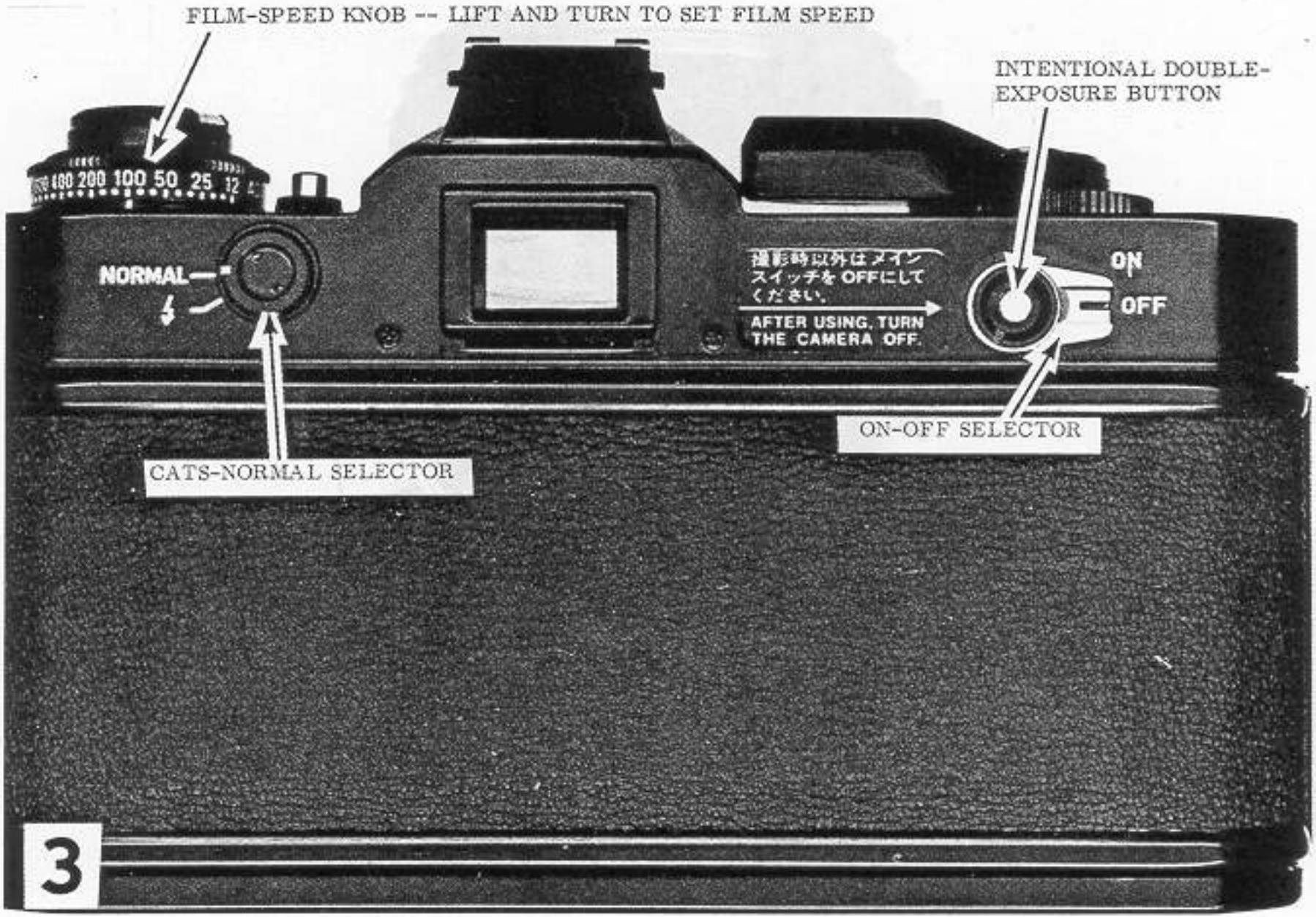
Canon EF Canon EF Canon EF Canon EF Canon EF Canon EF Canon EF Canon EF Canon EF

RELEASE BUTTON
WIND LEVER
HOT SHOE
REWIND KNOB--PULL UP TO OPEN BACK
Canon
LENS-LOCKING RING--TURN COUNTERCLOCKWISE TO REMOVE LENS
COUPLING POST FOR FLASH RING OF SPEEDLITE 133D

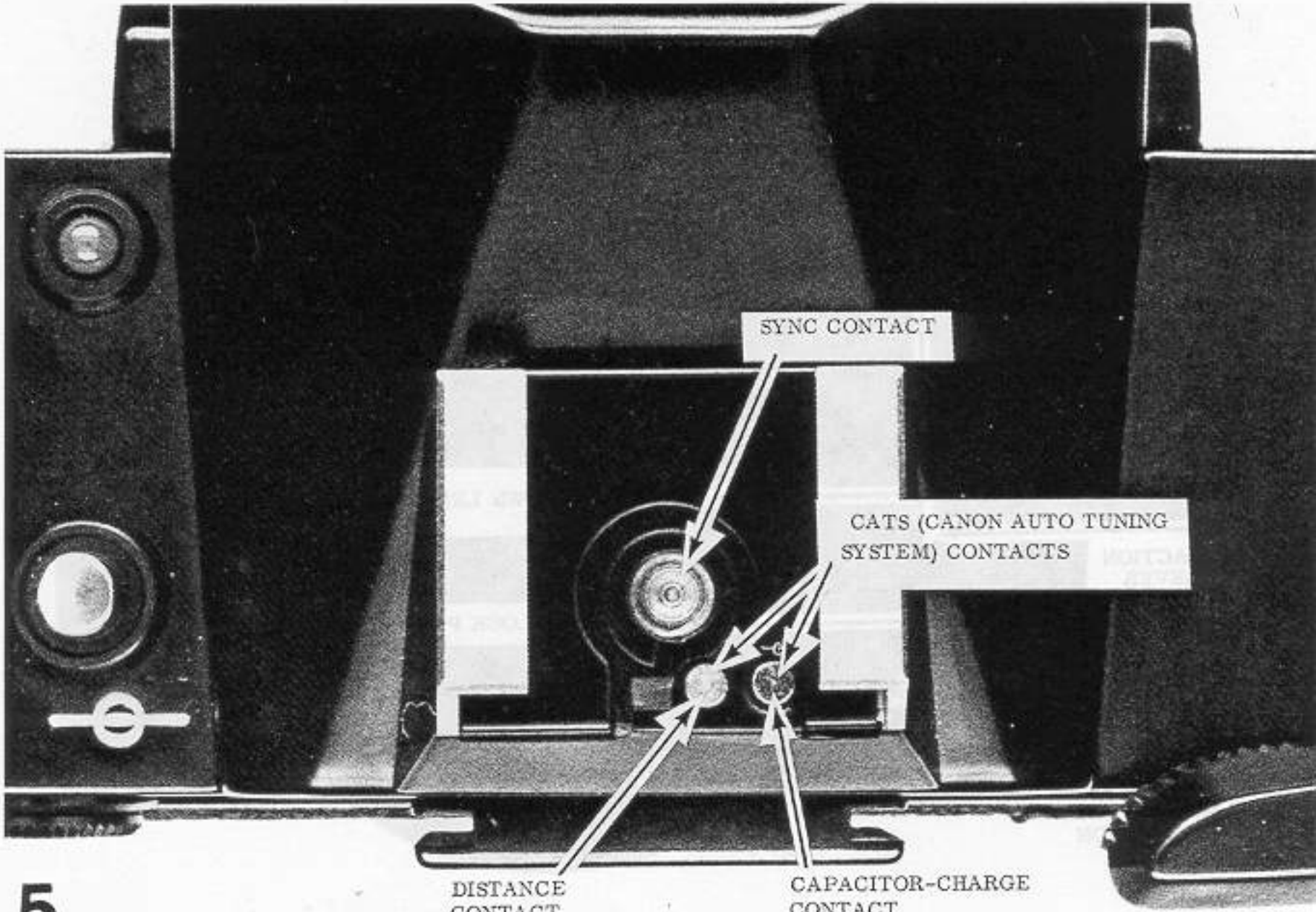
1


GREEN CIRCLE FOR AUTOMATIC-DIAPHRAGM CONTROL
DIAPHRAGM-SETTING RING
DIAPHRAGM-SETTING-RING LOCK BUTTON--DEPRESS TO SELECT AUTOMATIC SETTING
LED (LIGHT-EMITTING DIODE)
FLASHES DURING SLOW EXPOSURES AND WHEN YOU DEPRESS BATTERY-TEST BUTTON ON BOTTOM OF CAMERA
SHUTTER-SPEED DIAL
COUNTER WINDOW
SYNC-TERMINAL COVER
NEEDLE-HOLD BUTTON
HOT-SHOE COVER
WIND LEVER IN "STORAGE" POSITION
Canon
PASSED
114371

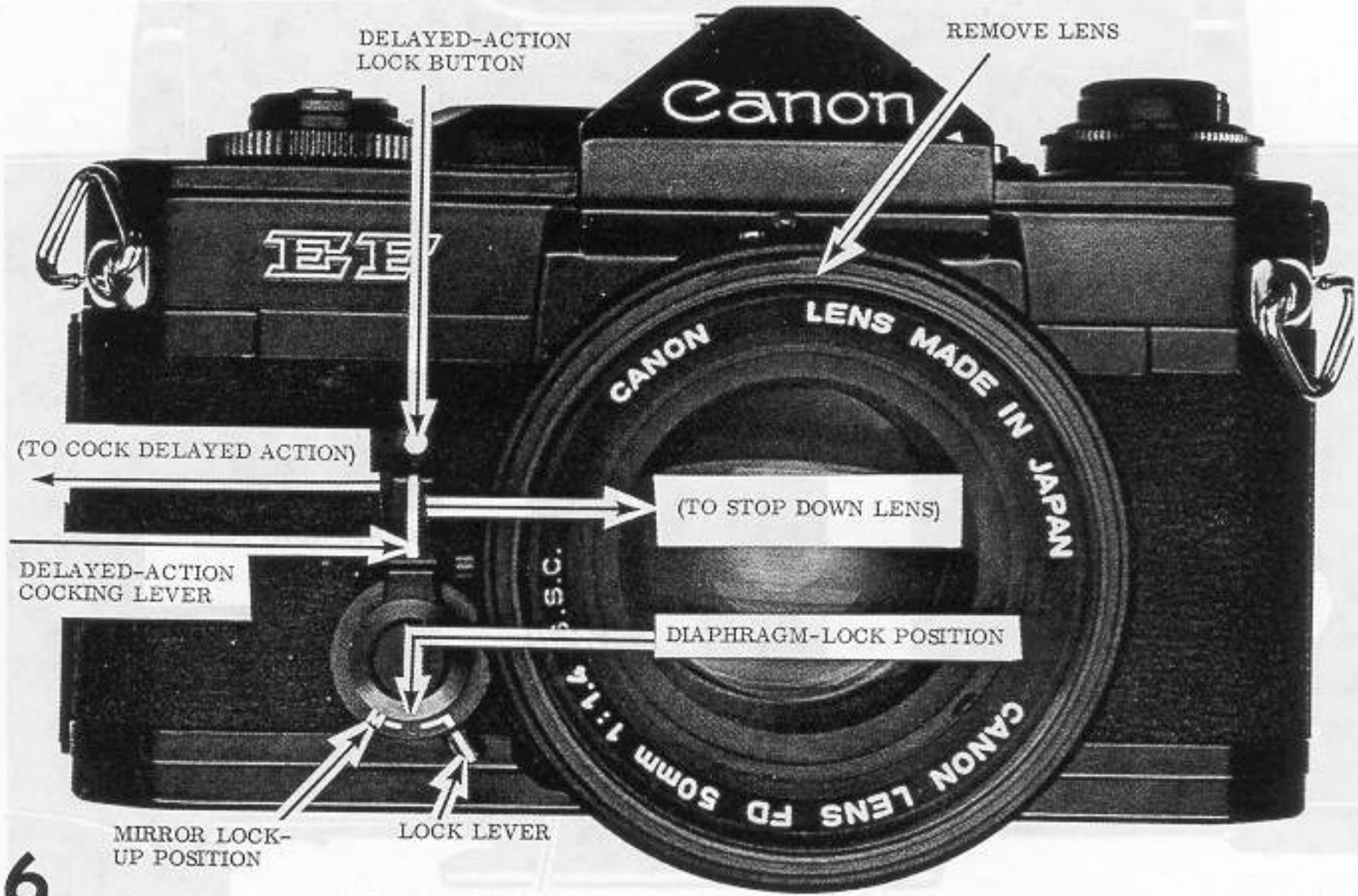

FILM-SPEED KNOB -- LIFT AND TURN TO SET FILM SPEED
INTENTIONAL DOUBLE-EXPOSURE BUTTON
400 200 100 50 25 12
NORMAL
撮影時以外はメインスイッチをOFFにしてください。
AFTER USING, TURN THE CAMERA OFF.
ON
OFF
CATS-NORMAL SELECTOR
ON-OFF SELECTOR
3

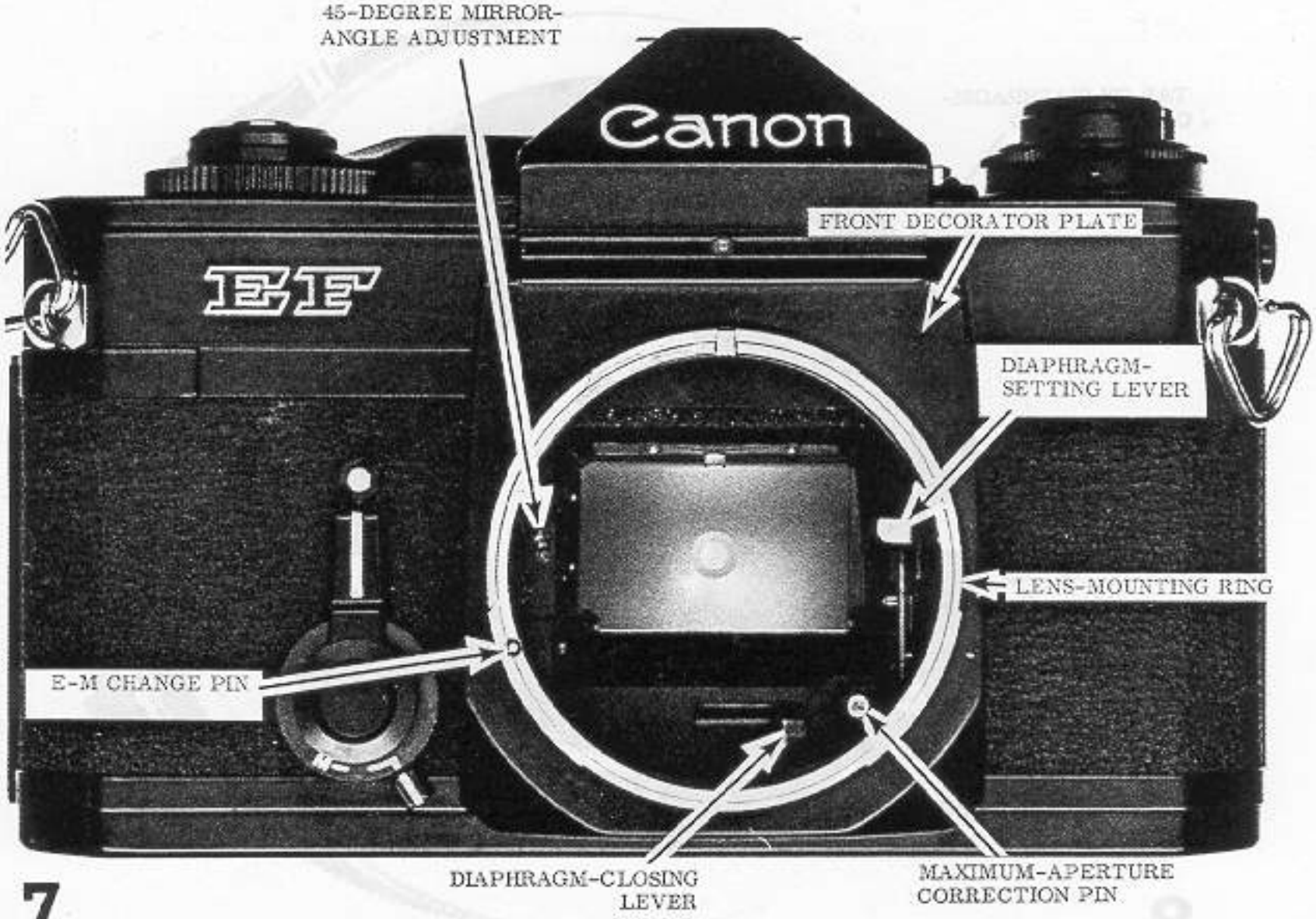
1.5
0.45
0.5
1.75
2
0.6
0.7
444457
BATTERY COVERS FOR TWO 1.35-VOLT MERCURY BATTERIES (625)
REWIND BUTTON
BATTERY-TEST BUTTON
CANON JAPAN

4


SYNC CONTACT
CATS (CANON AUTO TUNING SYSTEM) CONTACTS
DISTANCE CONTACT
CAPACITOR-CHARGE CONTACT

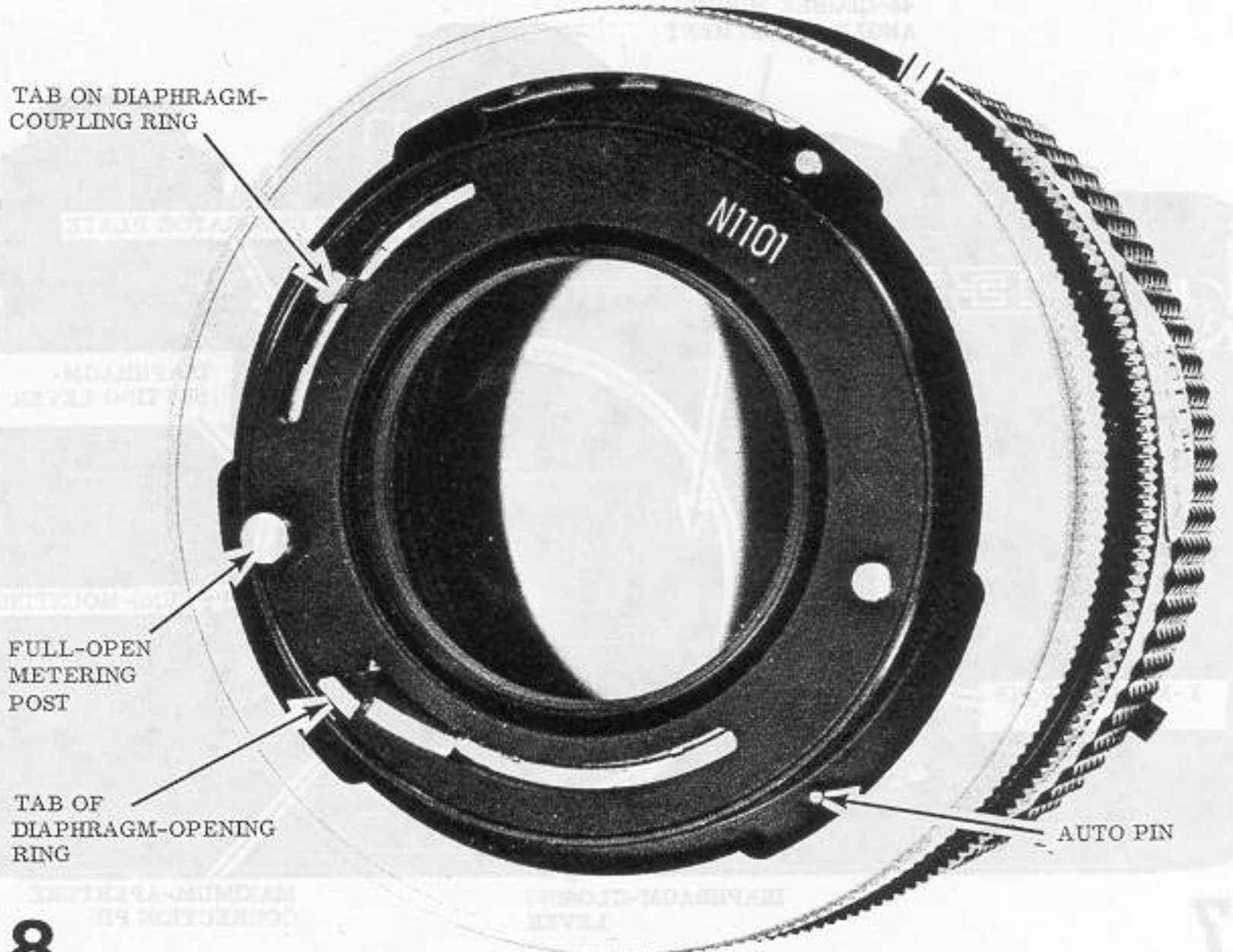
5


DELAYED-ACTION
LOCK BUTTON
REMOVE LENS
Canon
EE
CANON LENS MADE IN JAPAN
(TO COCK DELAYED ACTION)
(TO STOP DOWN LENS)
DELAYED-ACTION
COCKING LEVER
DIAPHRAGM-LOCK POSITION
CANON LENS FD 50mm 1:1.4
MIRROR LOCK-
UP POSITION
LOCK LEVER



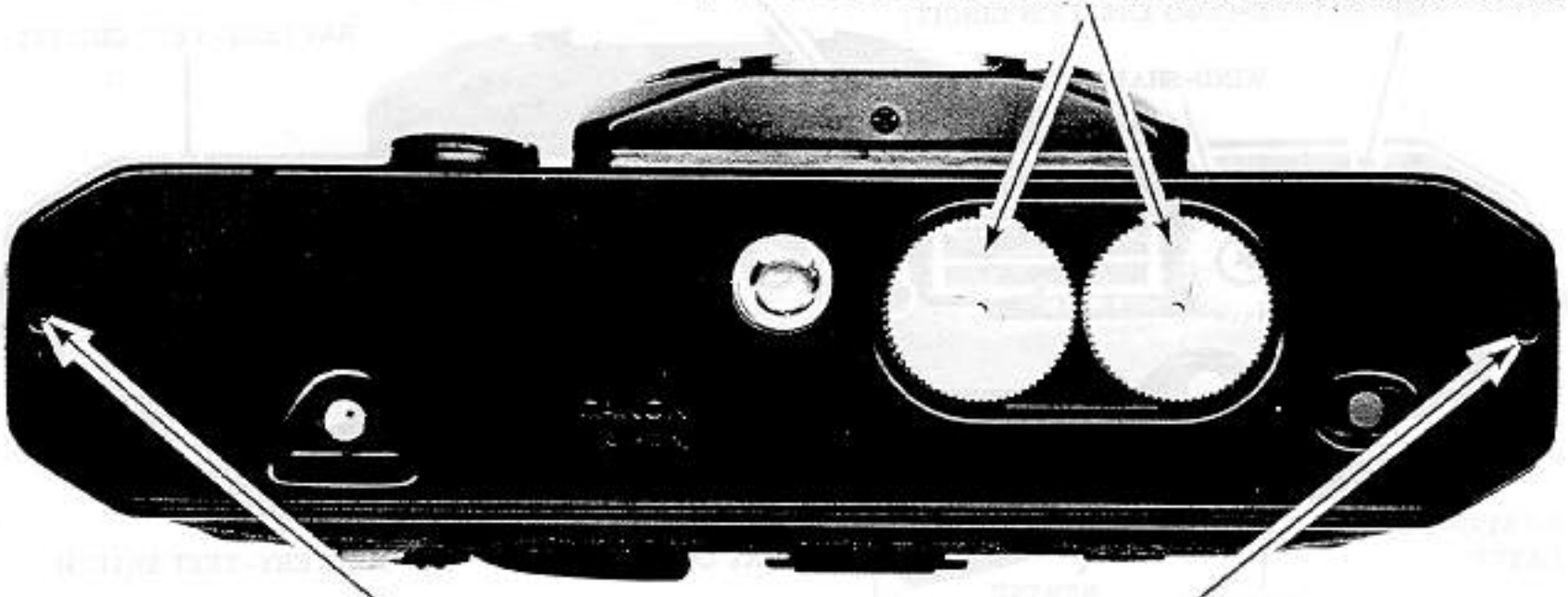
7

Check the flange-focal distance (42.14 mm) by measuring between the front surface of the lens-mounting ring and the film rails. To make an adjustment, first remove the screw at the bottom of the front decorator plate. Lift off the front decorator plate and remove the four screws holding the lens-mounting ring. You can now add or remove spacers to adjust the flange-focal distance and/or parallelism.



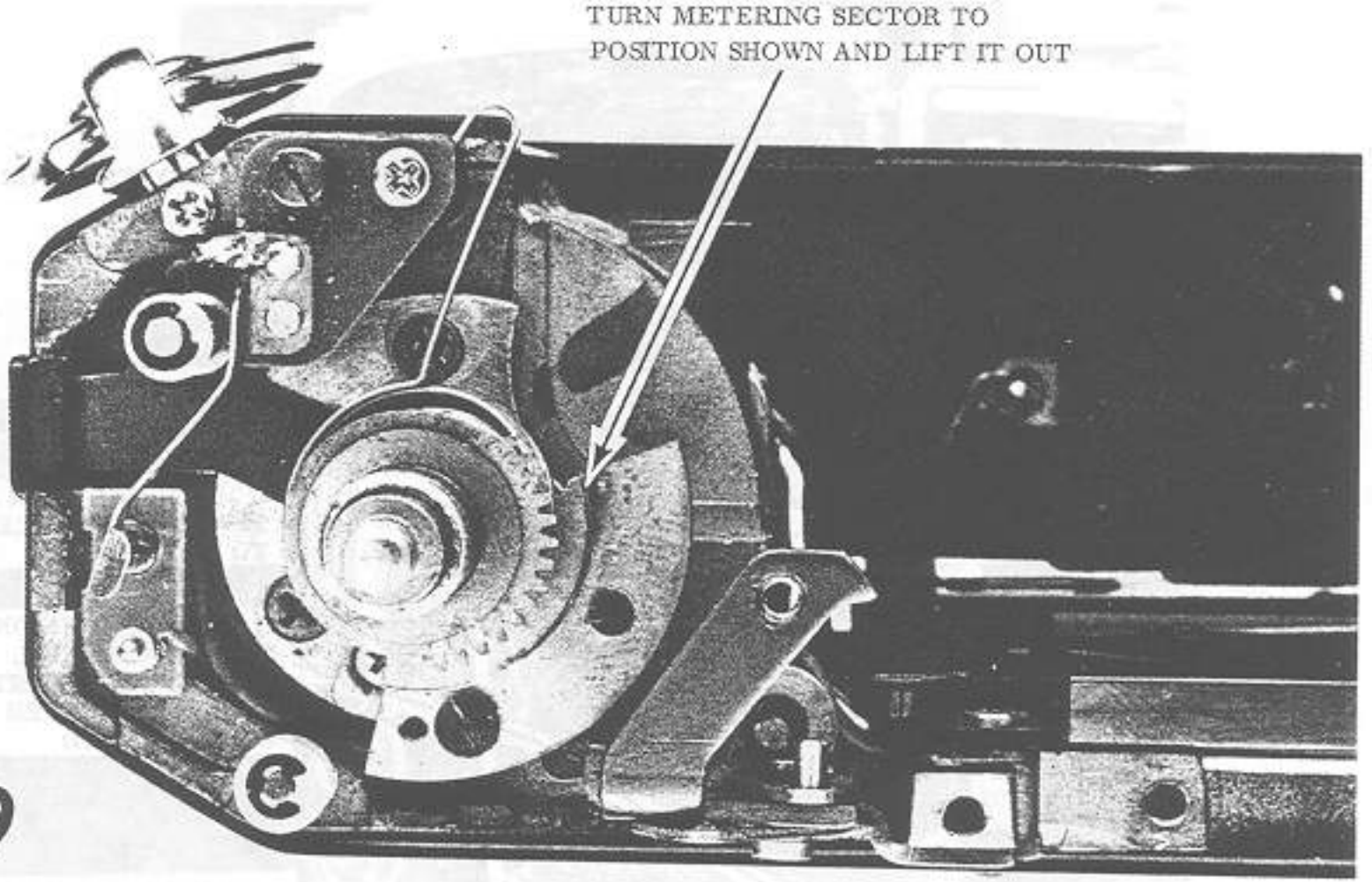
BACK OF FD LENS

1. REMOVE BATTERY-COMPARTMENT COVERS AND BATTERIES

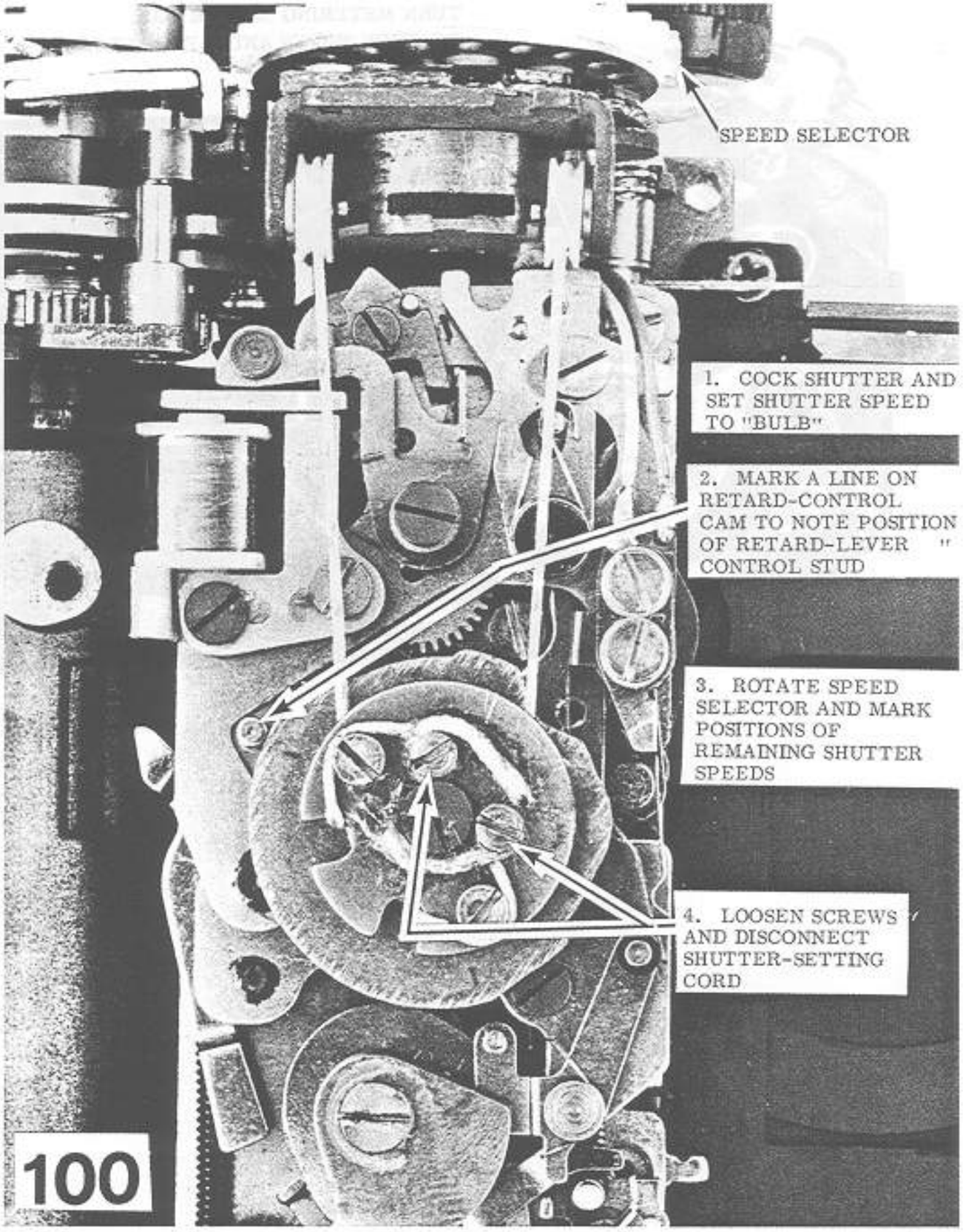


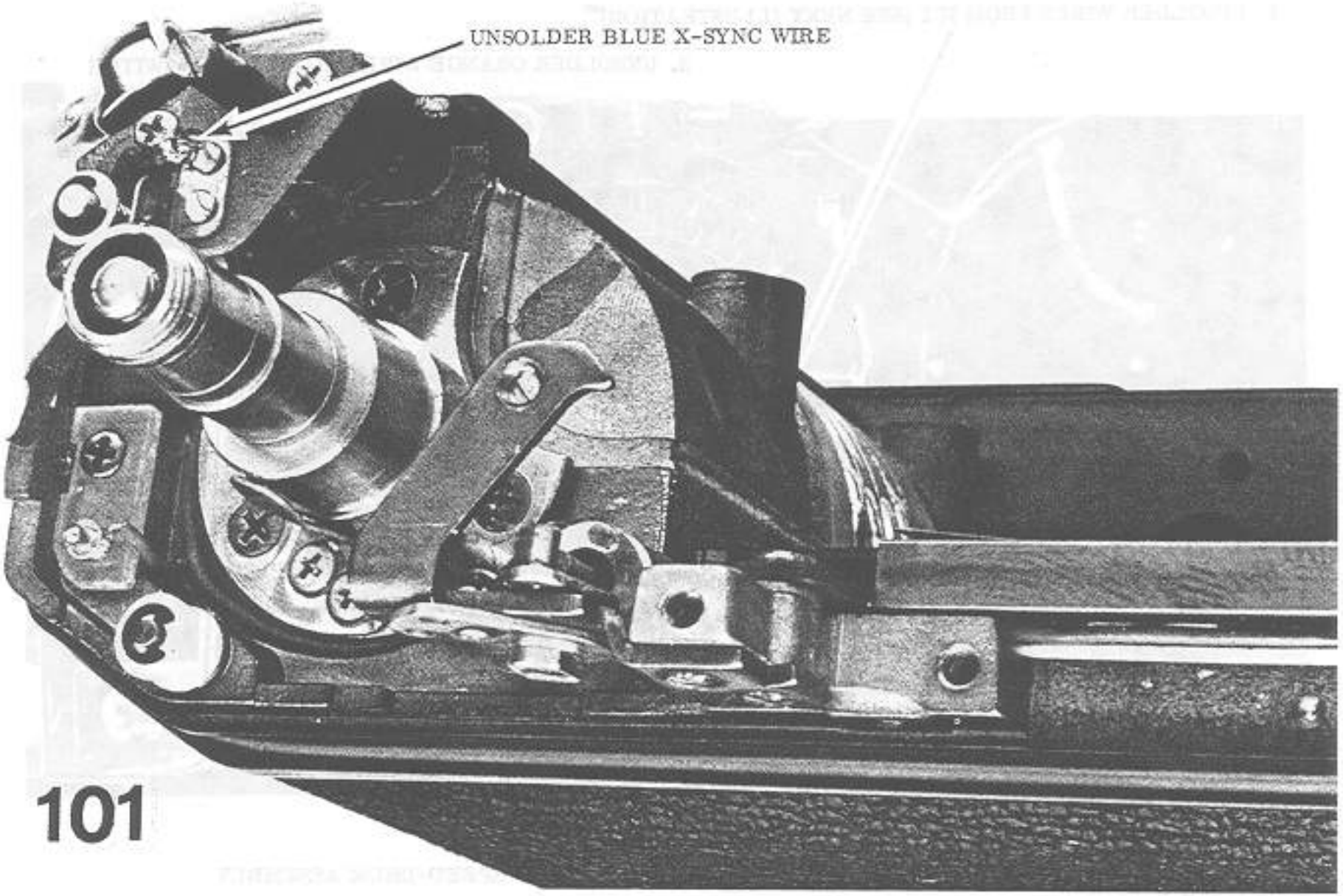
2. REMOVE TWO SCREWS AND LIFT OFF BOTTOM PLATE

CAUTION: BATTERY-TEST BUTTON WILL BE LOOSE WHEN YOU LIFT OFF BOTTOM PLATE



99

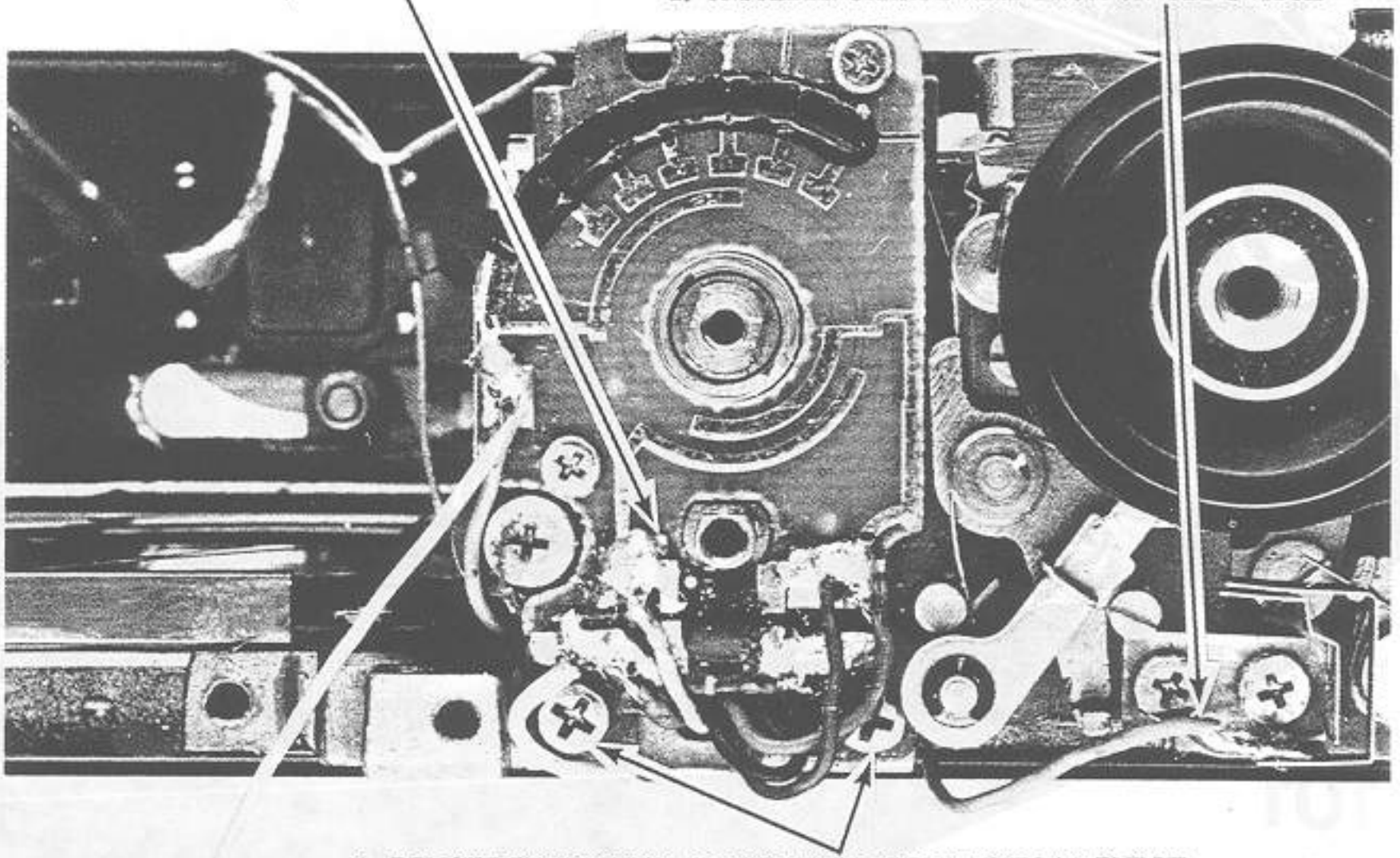

SPEED SELECTOR
1. COCK SHUTTER AND SET SHUTTER SPEED TO "BULB"
2. MARK A LINE ON RETARD-CONTROL CAM TO NOTE POSITION OF RETARD-LEVER CONTROL STUD
3. ROTATE SPEED SELECTOR AND MARK POSITIONS OF REMAINING SHUTTER SPEEDS
4. LOOSEN SCREWS AND DISCONNECT SHUTTER-SETTING CORD
100



101

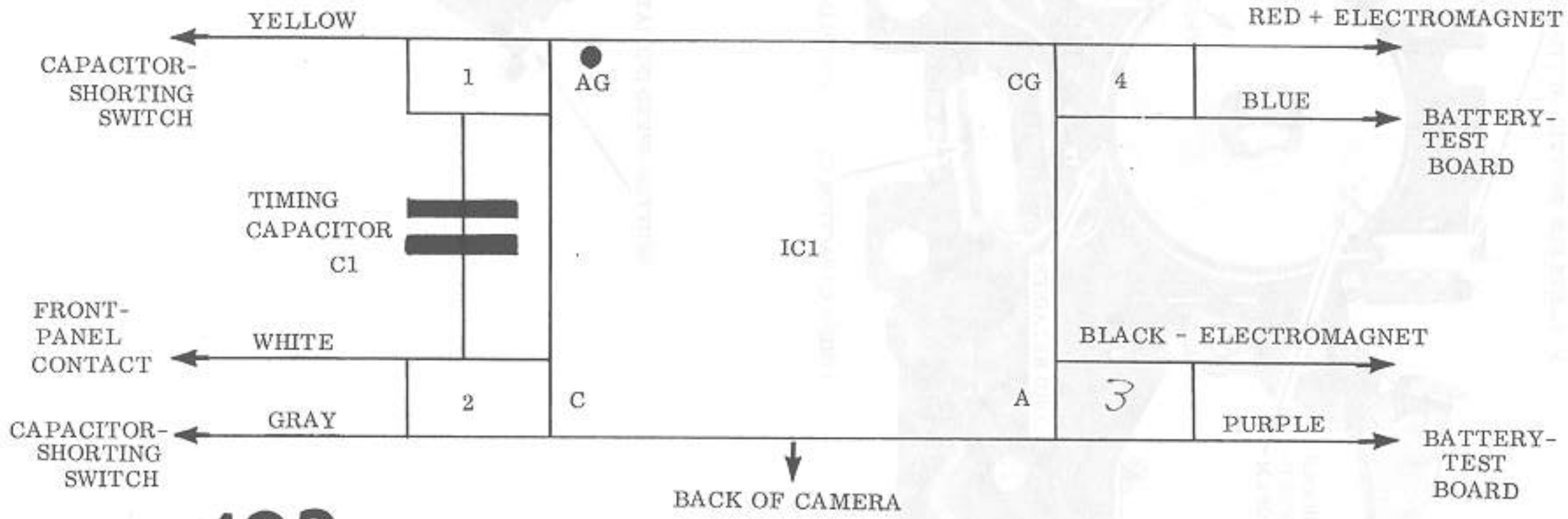
1. UNSOLDER WIRES FROM IC1 (SEE NEXT ILLUSTRATION)

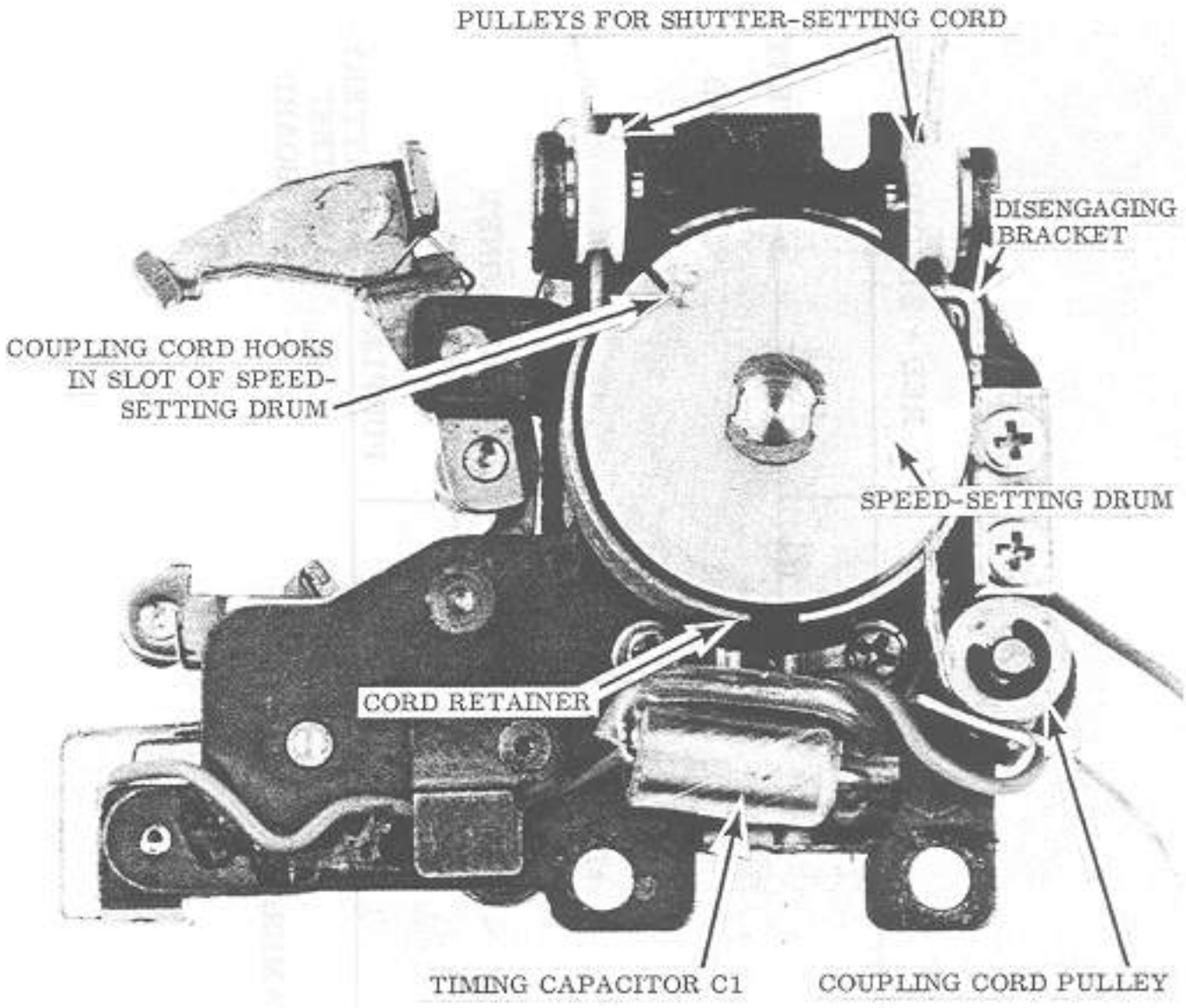
2. UNSOLDER ORANGE WIRE FROM ON-OFF SWITCH

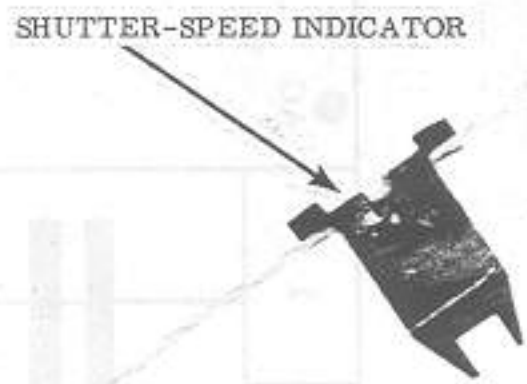


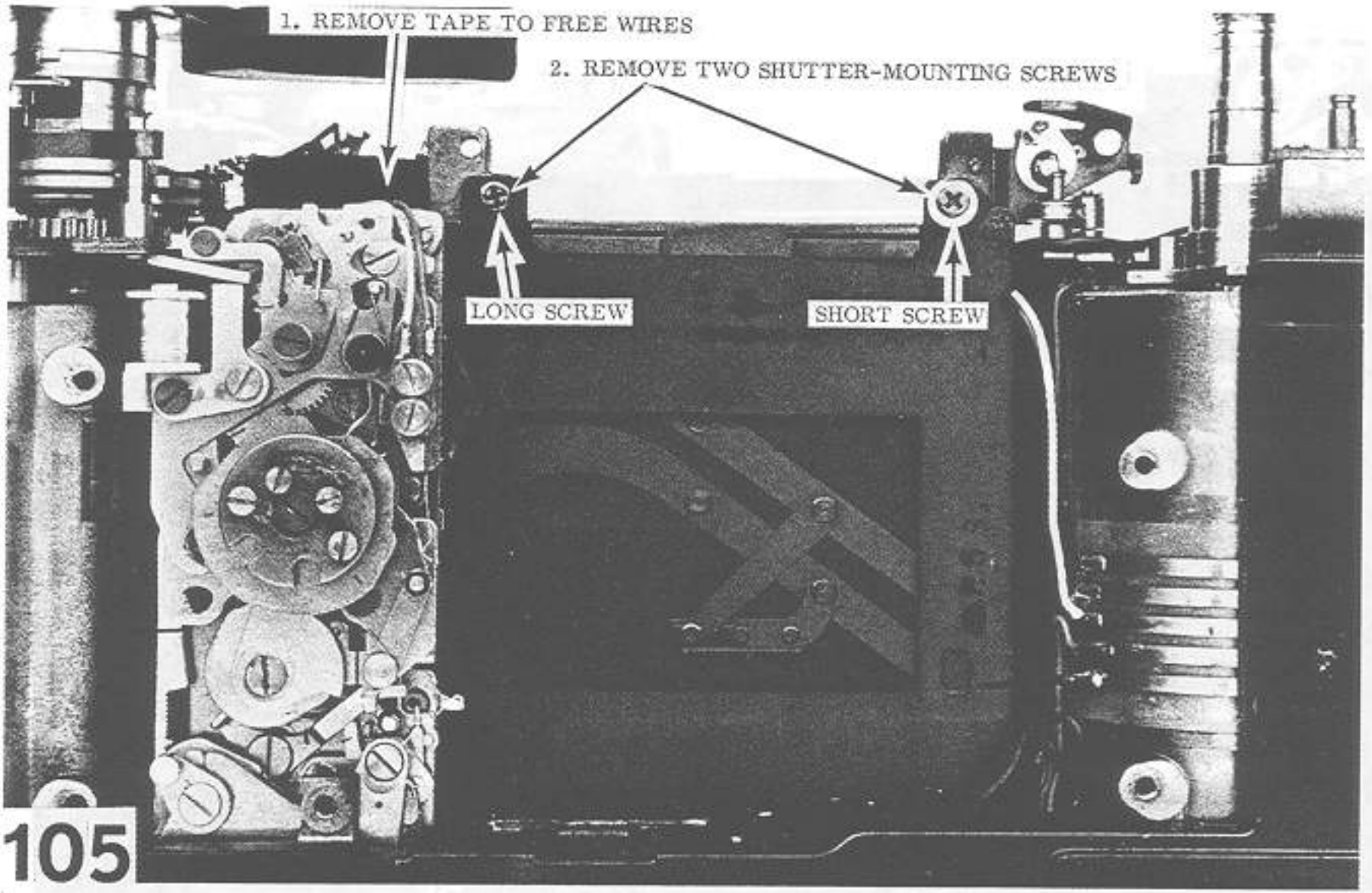
3. REMOVE TWO SCREWS AND LIFT OUT SPEED-DRUM ASSEMBLY

NOTE: SPEED SELECTOR DOES NOT HAVE TO BE REMOVED - WE'VE REMOVED IT HERE FOR ILLUSTRATION PURPOSES

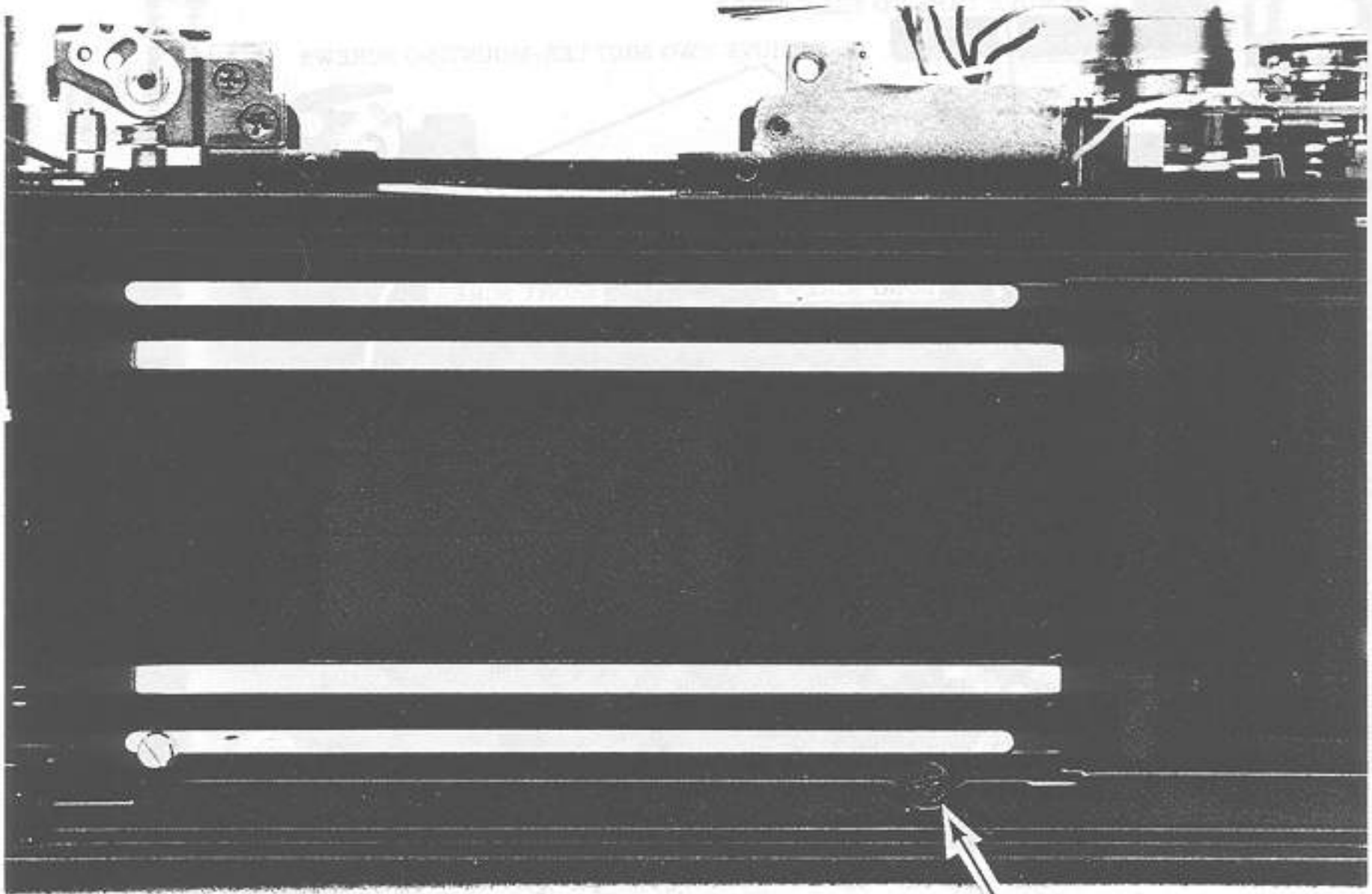

YELLOW
RED + ELECTROMAGNET
CAPACITOR-
SHORTING
SWITCH
1
AG
CG
4
BLUE
BATTERY-
TEST
BOARD
TIMING
CAPACITOR
C1
IC1
FRONT-
PANEL
CONTACT
WHITE
BLACK - ELECTROMAGNET
2
C
A
3
GRAY
PURPLE
CAPACITOR-
SHORTING
SWITCH
BATTERY-
TEST
BOARD
BACK OF CAMERA


PULLEYS FOR SHUTTER-SETTING CORD
DISENGAGING BRACKET
COUPLING CORD HOOKS IN SLOT OF SPEED-SETTING DRUM
SPEED-SETTING DRUM
CORD RETAINER
TIMING CAPACITOR C1
COUPLING CORD PULLEY


SHUTTER-SPEED INDICATOR

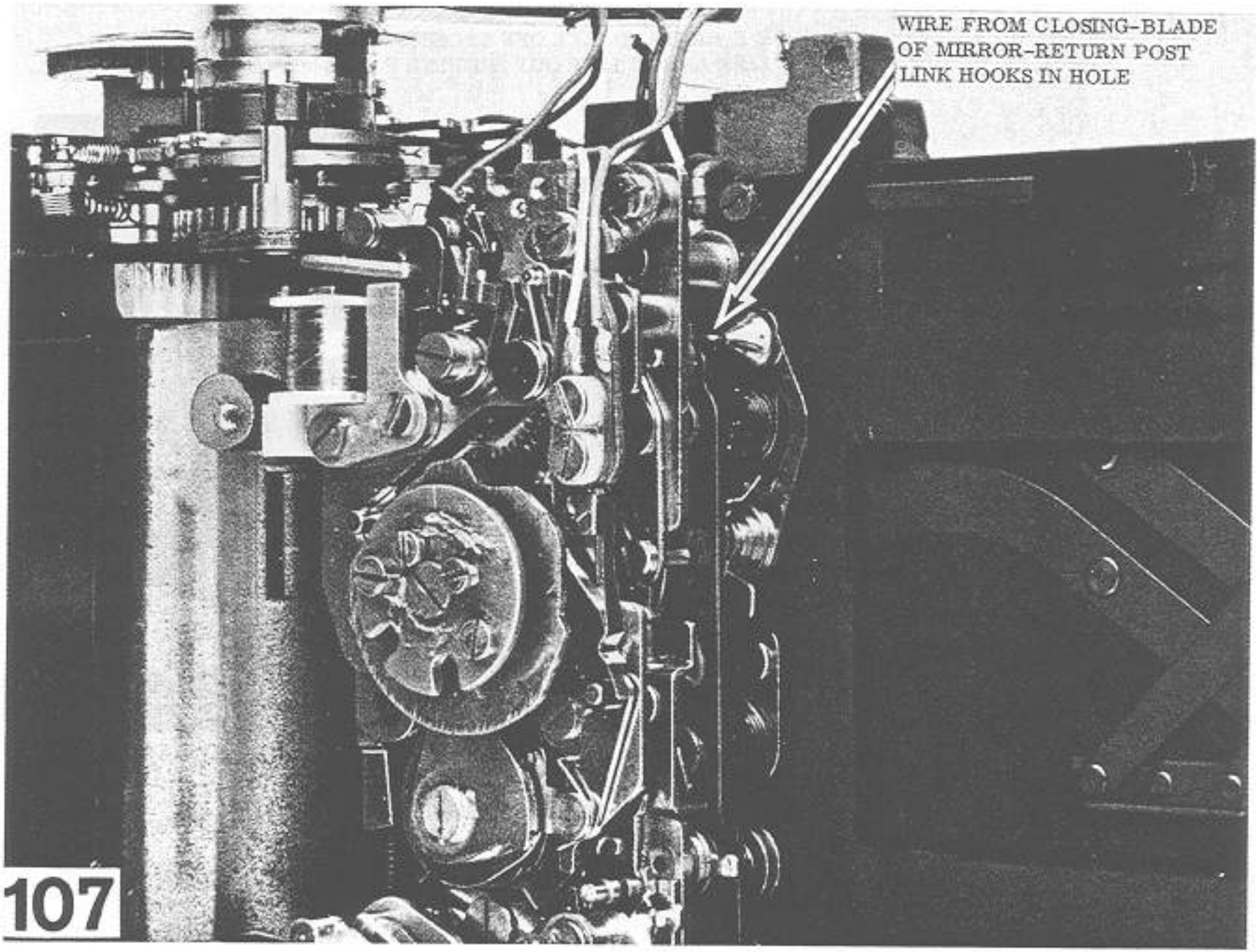

1. REMOVE TAPE TO FREE WIRES
2. REMOVE TWO SHUTTER-MOUNTING SCREWS
LONG SCREW
SHORT SCREW

105

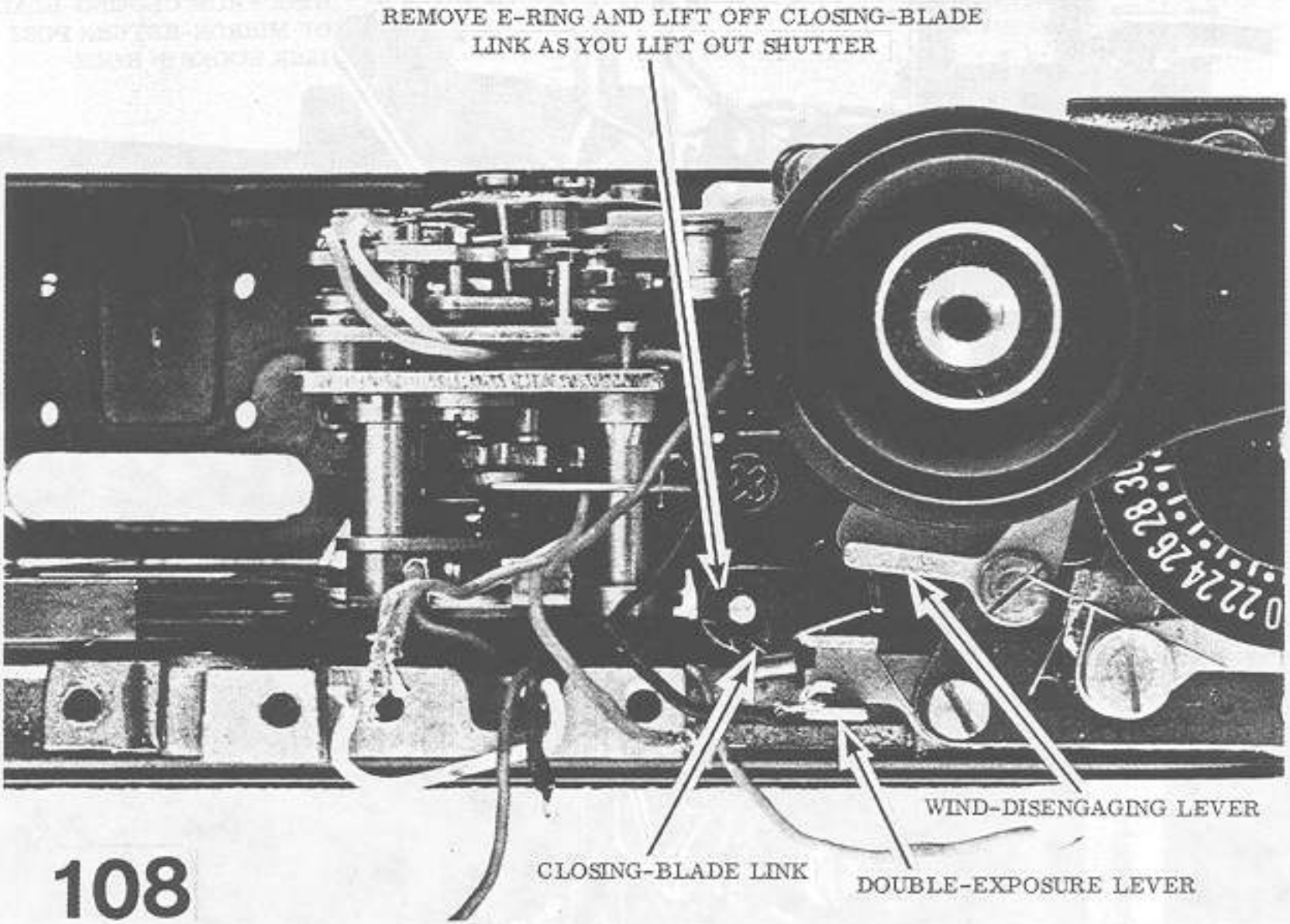


106

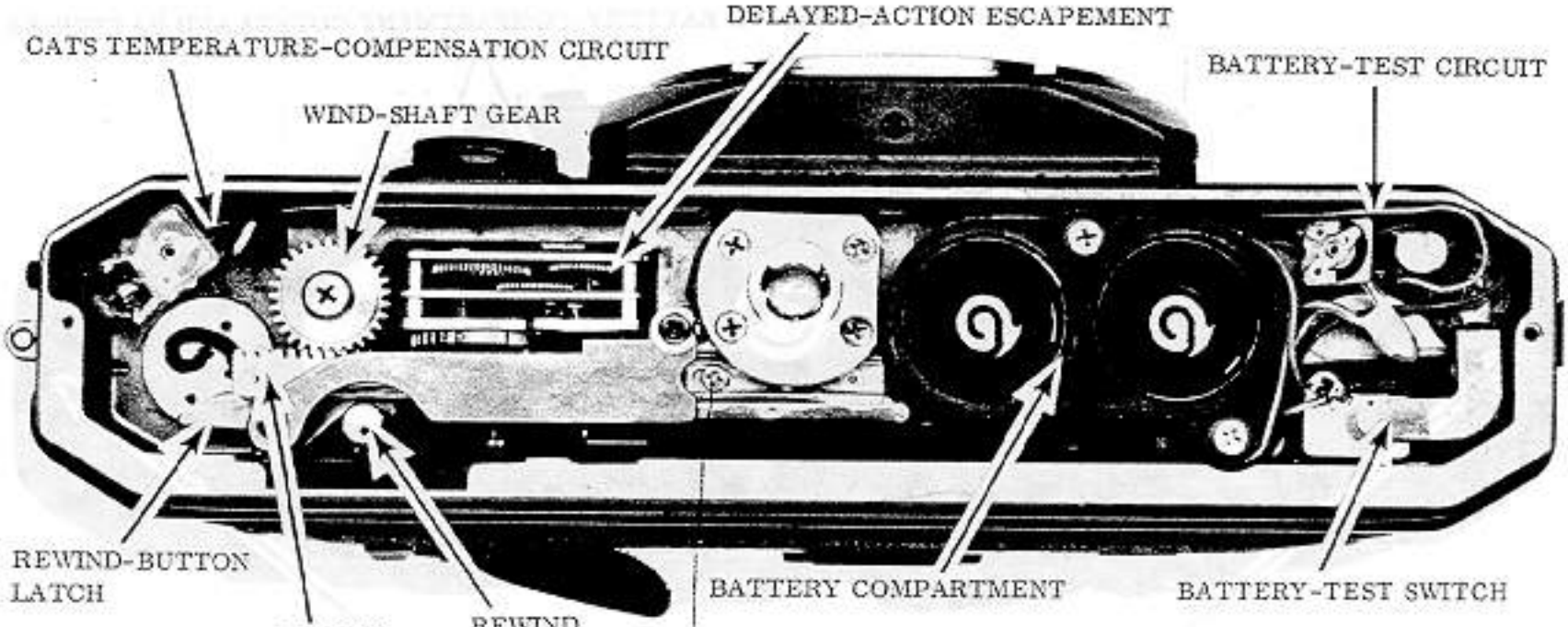
REMOVE REAR SHUTTER-MOUNTING SCREW


WIRE FROM CLOSING-BLADE
OF MIRROR-RETURN POST
LINK HOOKS IN HOLE

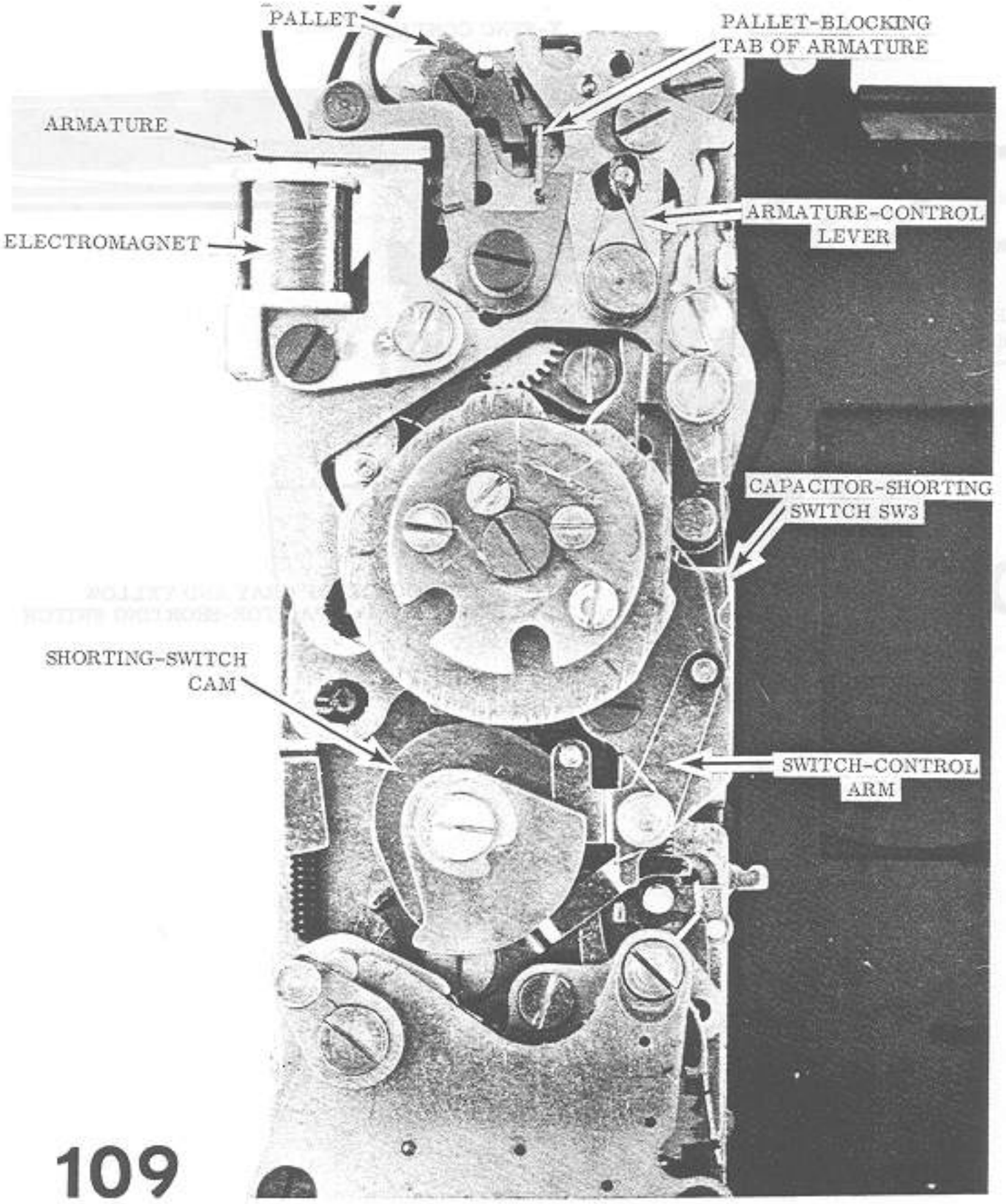
107


REMOVE E-RING AND LIFT OFF CLOSING-BLADE LINK AS YOU LIFT OUT SHUTTER
WIND-DISENGAGING LEVER
CLOSING-BLADE LINK
DOUBLE-EXPOSURE LEVER

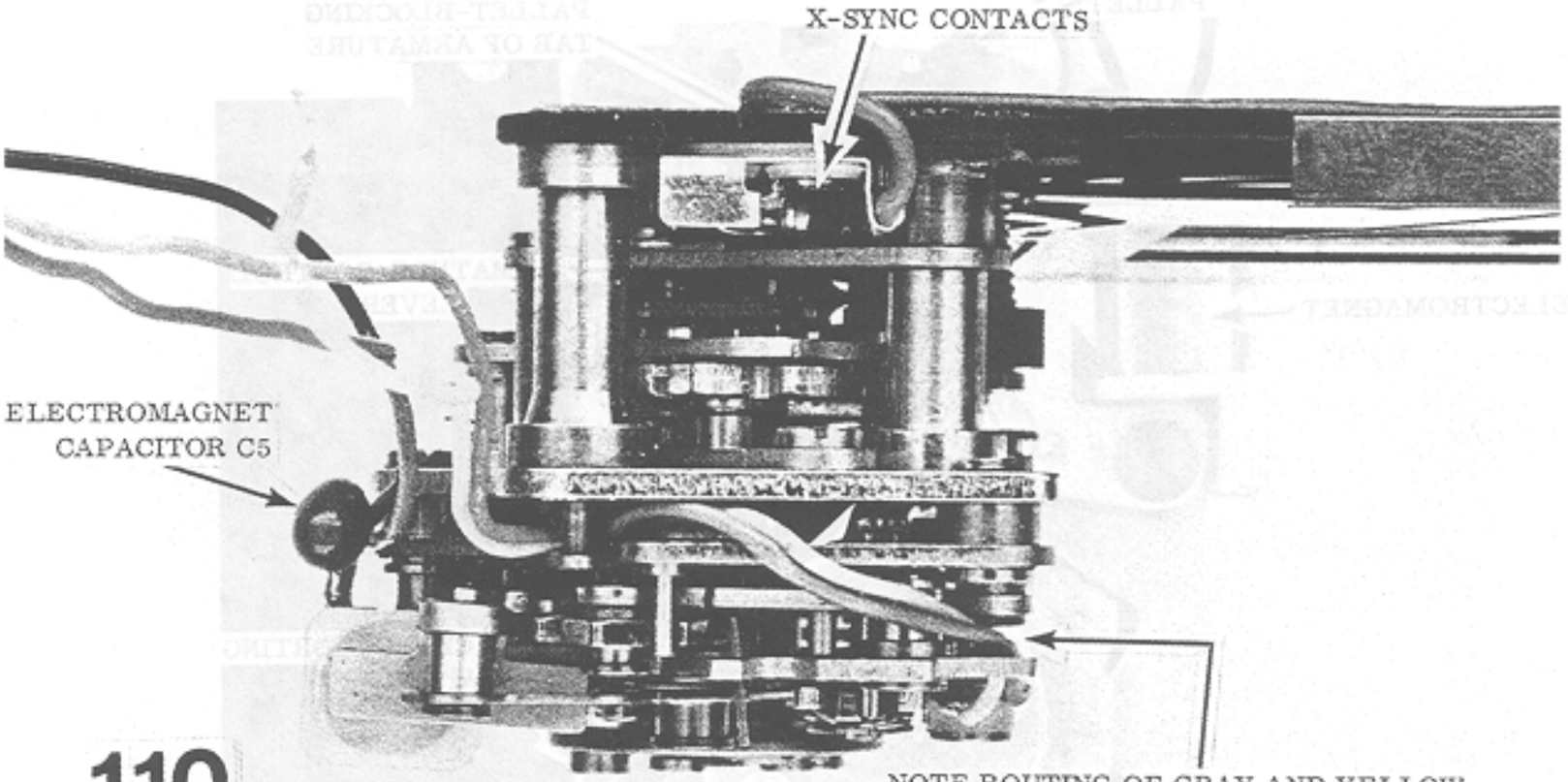
108



adjustment for overwind or underwind (cocking)


PALLET
PALLET-BLOCKING TAB OF ARMATURE
ARMATURE
ELECTROMAGNET
ARMATURE-CONTROL LEVER
CAPACITOR-SHORTING SWITCH SW3
SHORTING-SWITCH CAM
SWITCH-CONTROL ARM

109

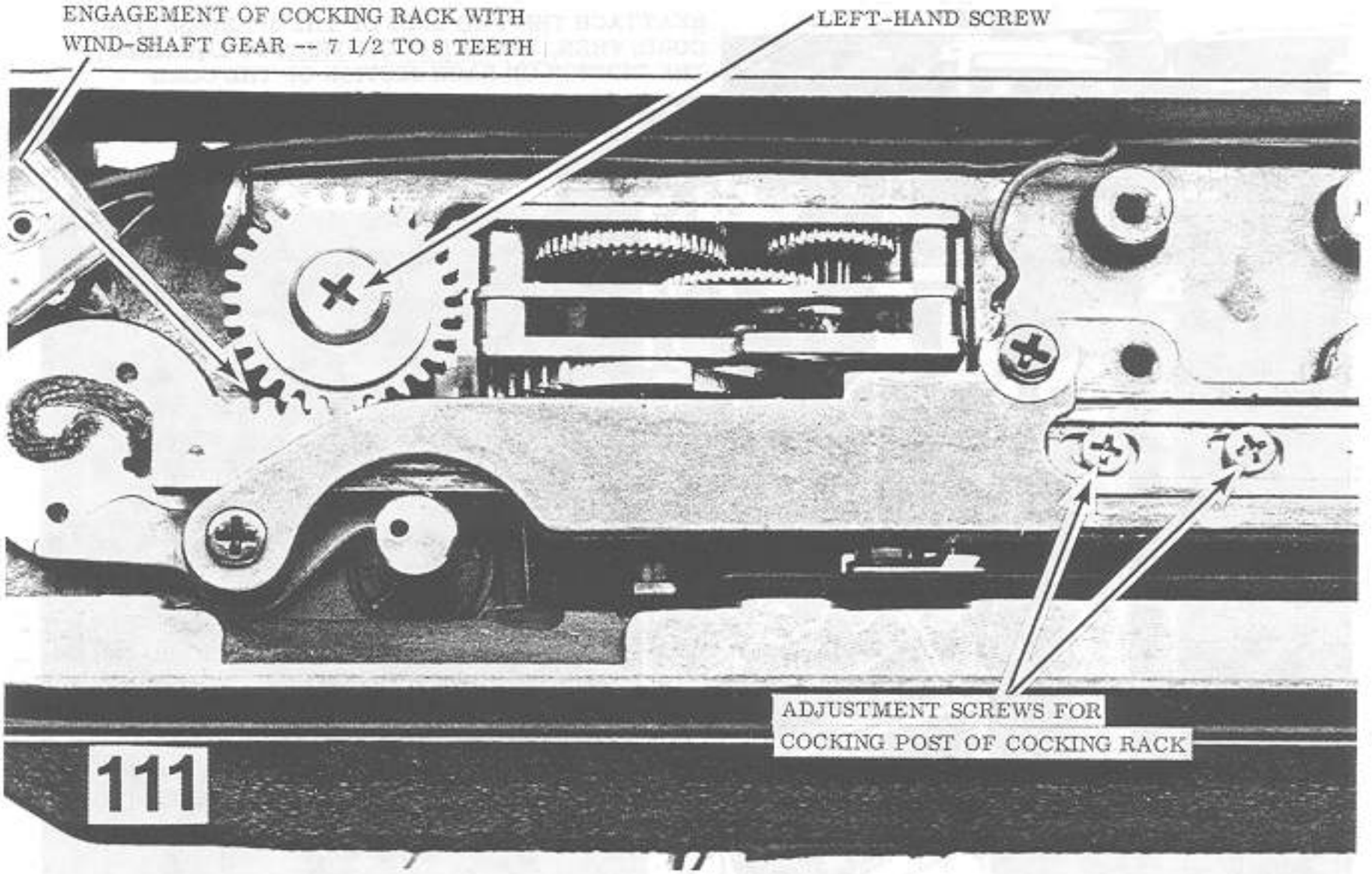


110

modification

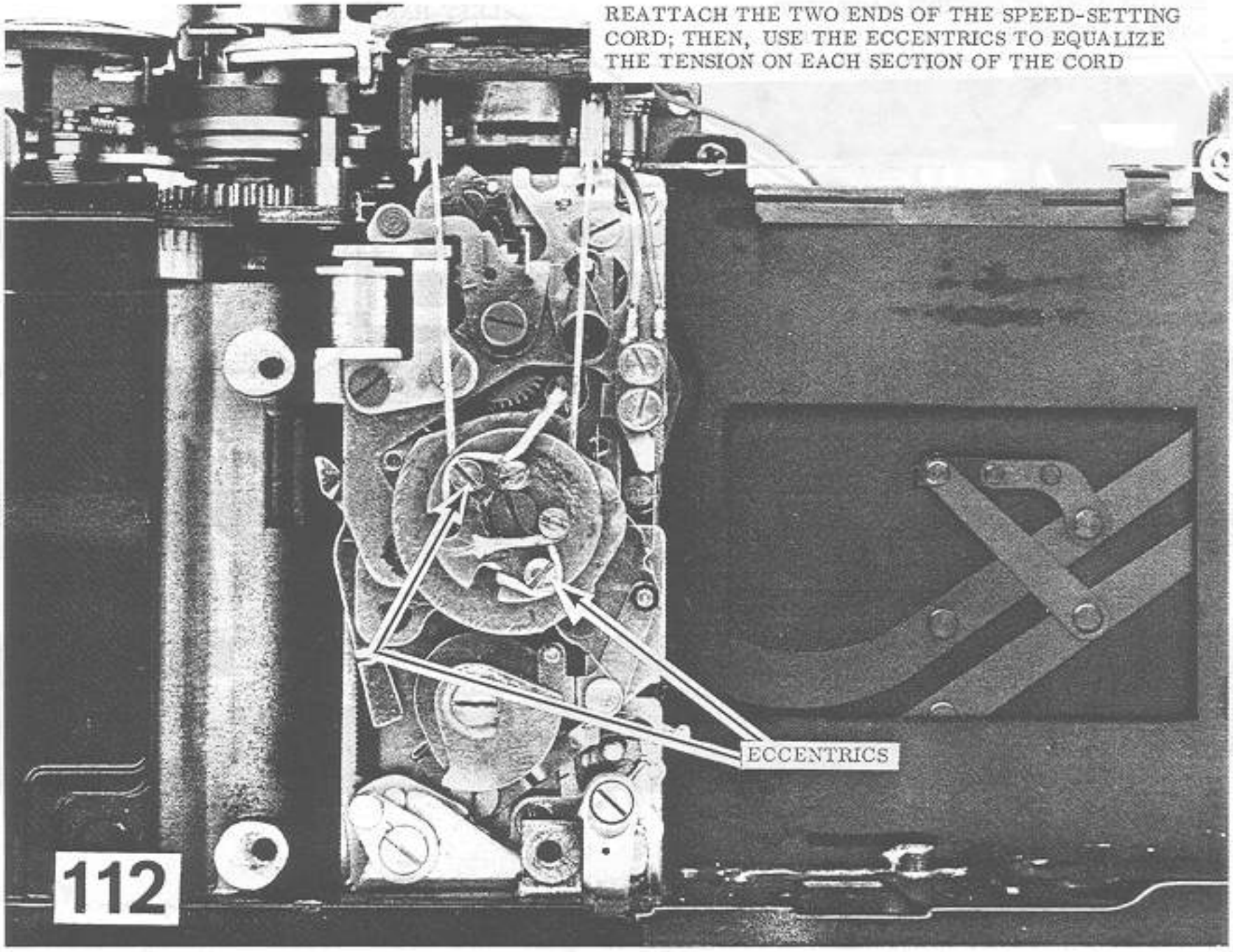
C5

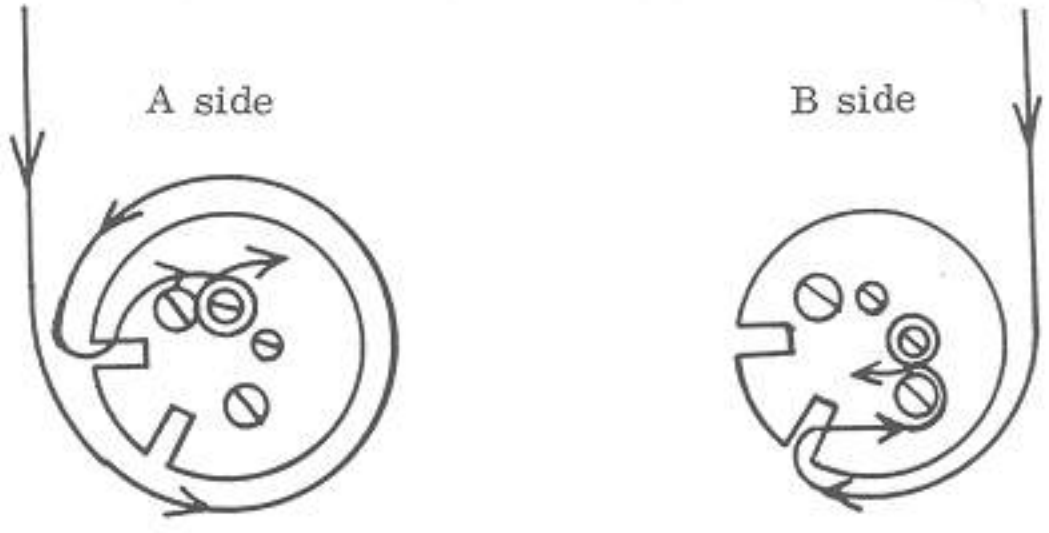
0.1 μF


ENGAGEMENT OF COCKING RACK WITH
WIND-SHAFT GEAR -- 7 1/2 TO 8 TEETH
LEFT-HAND SCREW
ADJUSTMENT SCREWS FOR
COCKING POST OF COCKING RACK
111

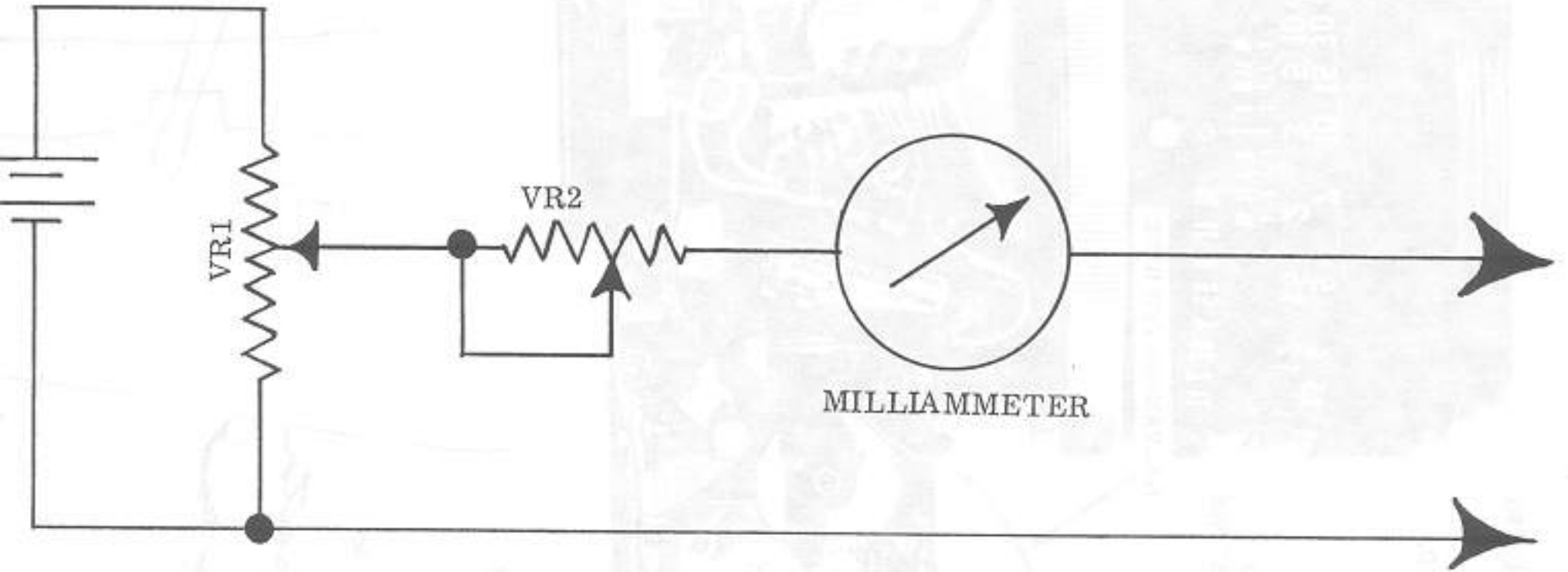
If shutter doesn't cock or advance won't come back Take off left hand screw, take off gear + replace 180° make ½ tooth adjustment

REATTACH THE TWO ENDS OF THE SPEED-SETTING CORD; THEN, USE THE ECCENTRICS TO EQUALIZE THE TENSION ON EACH SECTION OF THE CORD

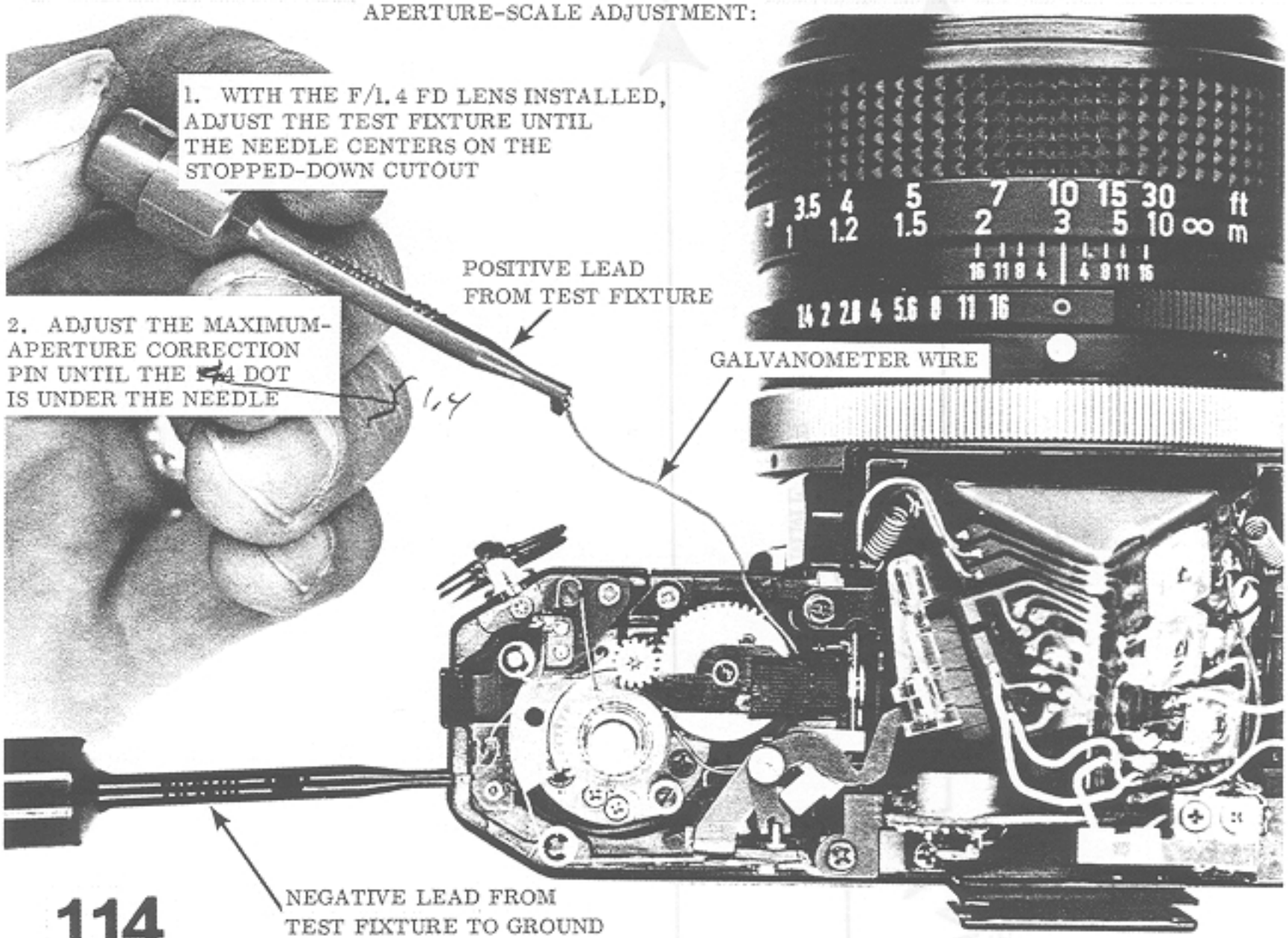




Set at Each

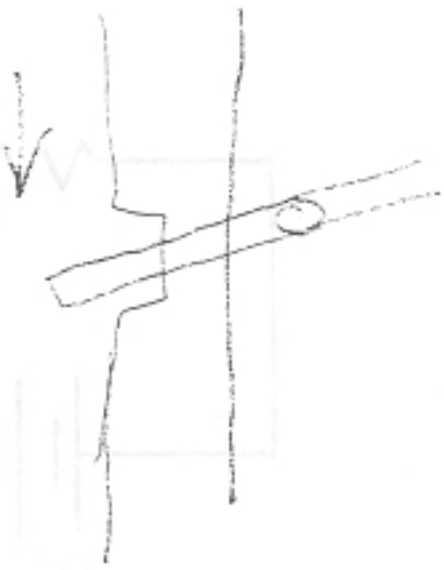

VR1
VR2
MILLIAMMETER

APERTURE-SCALE ADJUSTMENT:


1. WITH THE F/1.4 FD LENS INSTALLED, ADJUST THE TEST FIXTURE UNTIL THE NEEDLE CENTERS ON THE STOPPED-DOWN CUTOUT
2. ADJUST THE MAXIMUM-APERTURE CORRECTION PIN UNTIL THE 1.4 DOT IS UNDER THE NEEDLE
1.4
POSITIVE LEAD FROM TEST FIXTURE
GALVANOMETER WIRE
NEGATIVE LEAD FROM TEST FIXTURE TO GROUND
3.5 4 5 7 10 15 30 ft
1 1.2 1.5 2 3 5 10 ∞ m
16 11 8 4 4 8 11 16
1.4 2 2.8 4 5.6 8 11 16

114

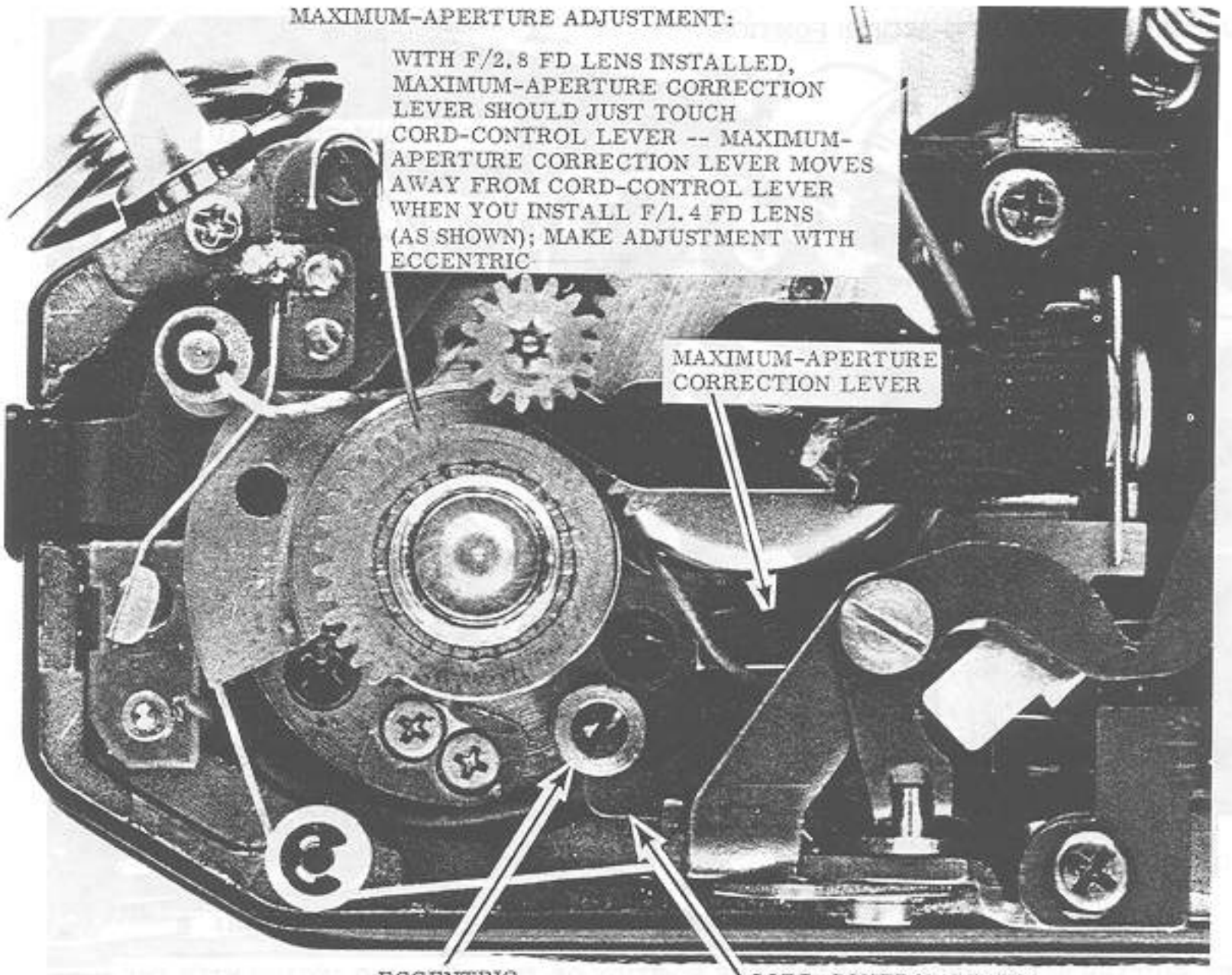
1. adjust aperture scale ↑
(115) - 2. " maximum aperture ×
(116) - 3 position of metering sector
(117) 4 Mount film speed gear unit
(118)
(119)
(120) 5 - Ajust meter
(122) - 6 " cds circuit
(123) - 7 " diaphragm opening



Scale moves down when you turn pin clockwise

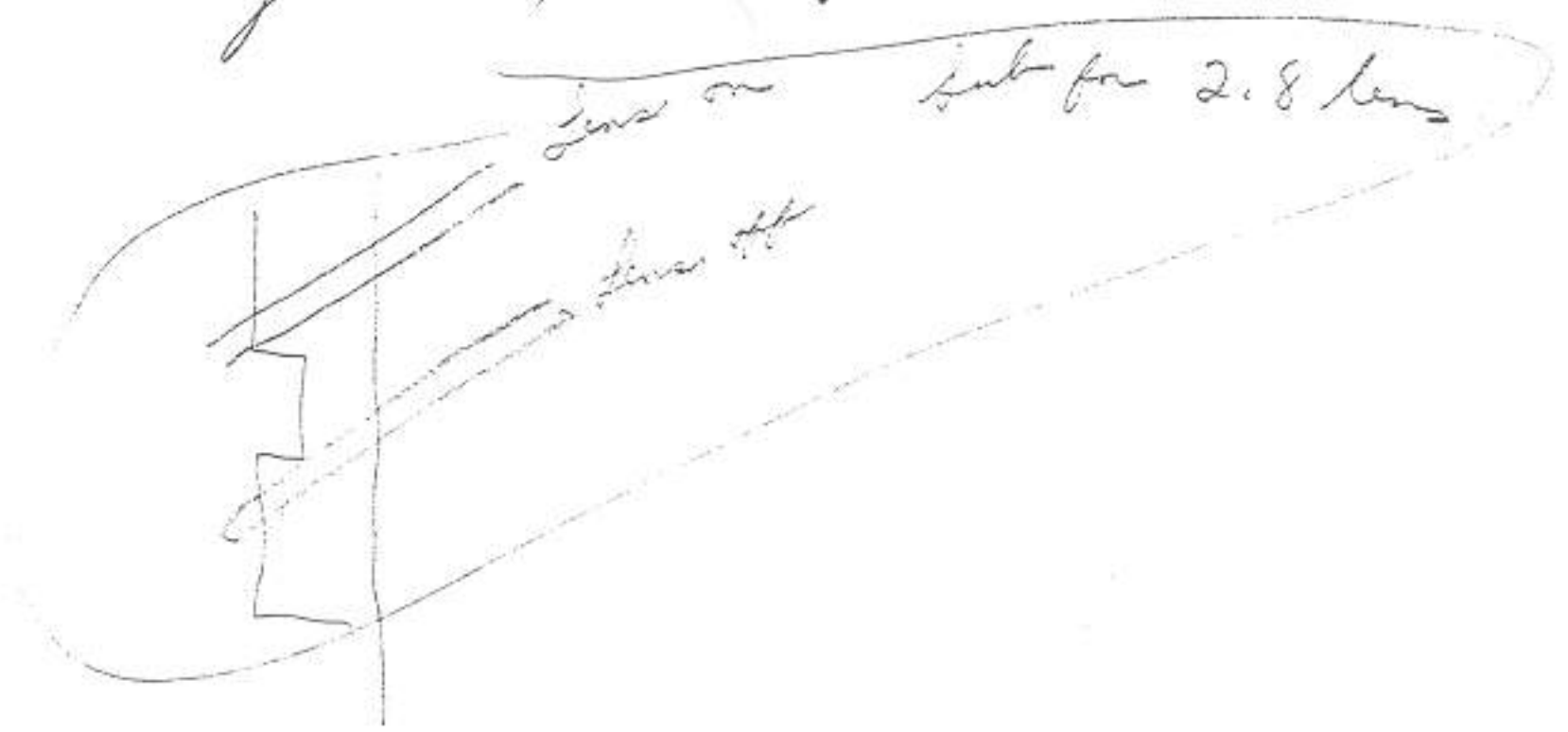
MAXIMUM-APERTURE ADJUSTMENT:

WITH F/2.8 FD LENS INSTALLED, MAXIMUM-APERTURE CORRECTION LEVER SHOULD JUST TOUCH CORD-CONTROL LEVER -- MAXIMUM-APERTURE CORRECTION LEVER MOVES AWAY FROM CORD-CONTROL LEVER WHEN YOU INSTALL F/1.4 FD LENS (AS SHOWN); MAKE ADJUSTMENT WITH ECCENTRIC

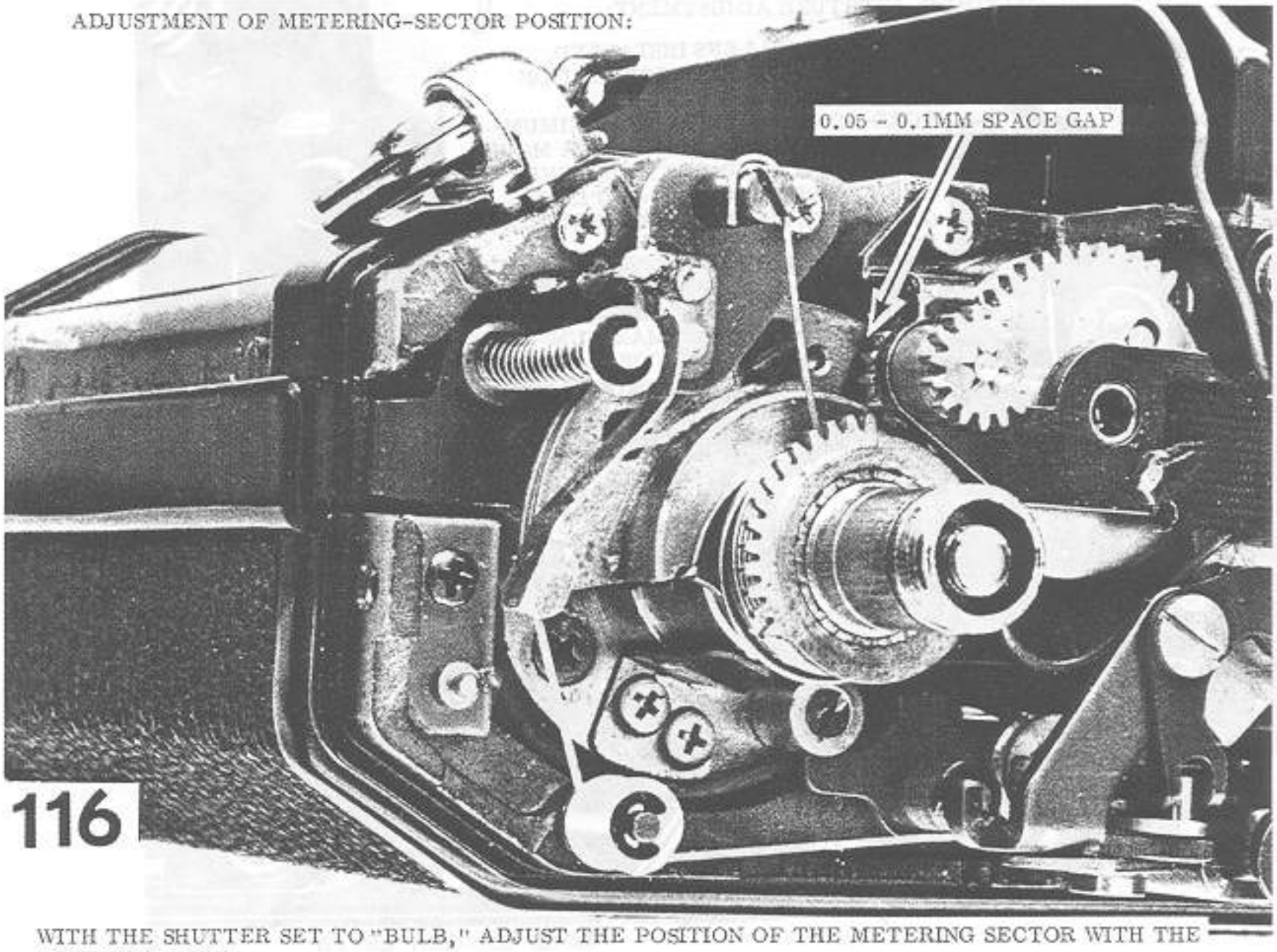


115

adjust maximum aperture



ADJUSTMENT OF METERING-SECTOR POSITION:



WITH THE SHUTTER SET TO "BULB," ADJUST THE POSITION OF THE METERING SECTOR WITH THE COUPLING CORD

adjust position of metering sector

MOUNTING OF FILM-SPEED GEAR UNIT (1)

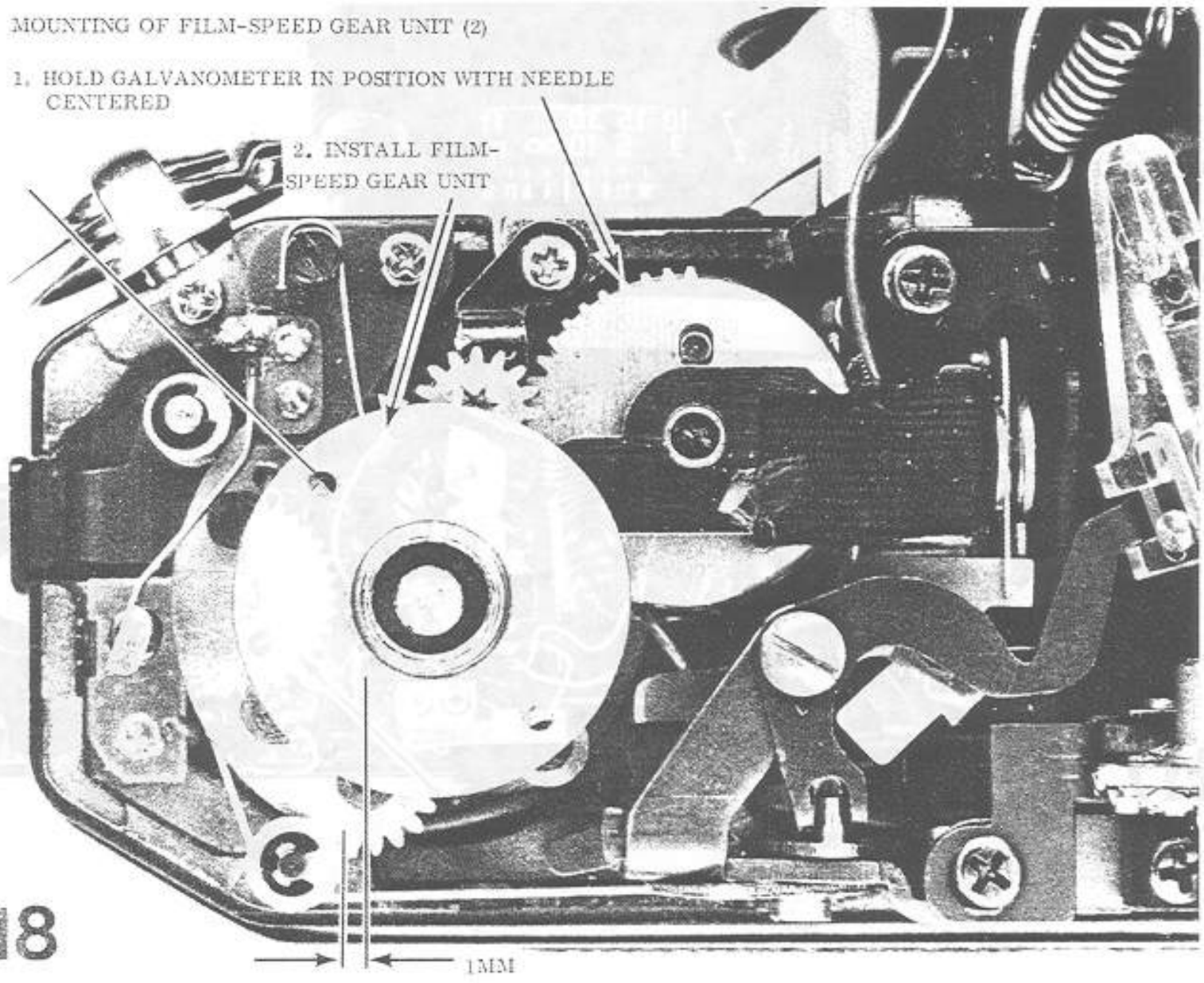
SET TEST FIXTURE FOR 294 MICROAMPERES AND CENTER NEEDLE IN STOPPED-DOWN CUTOUT BY TURNING GALVANOMETER HOUSING

117

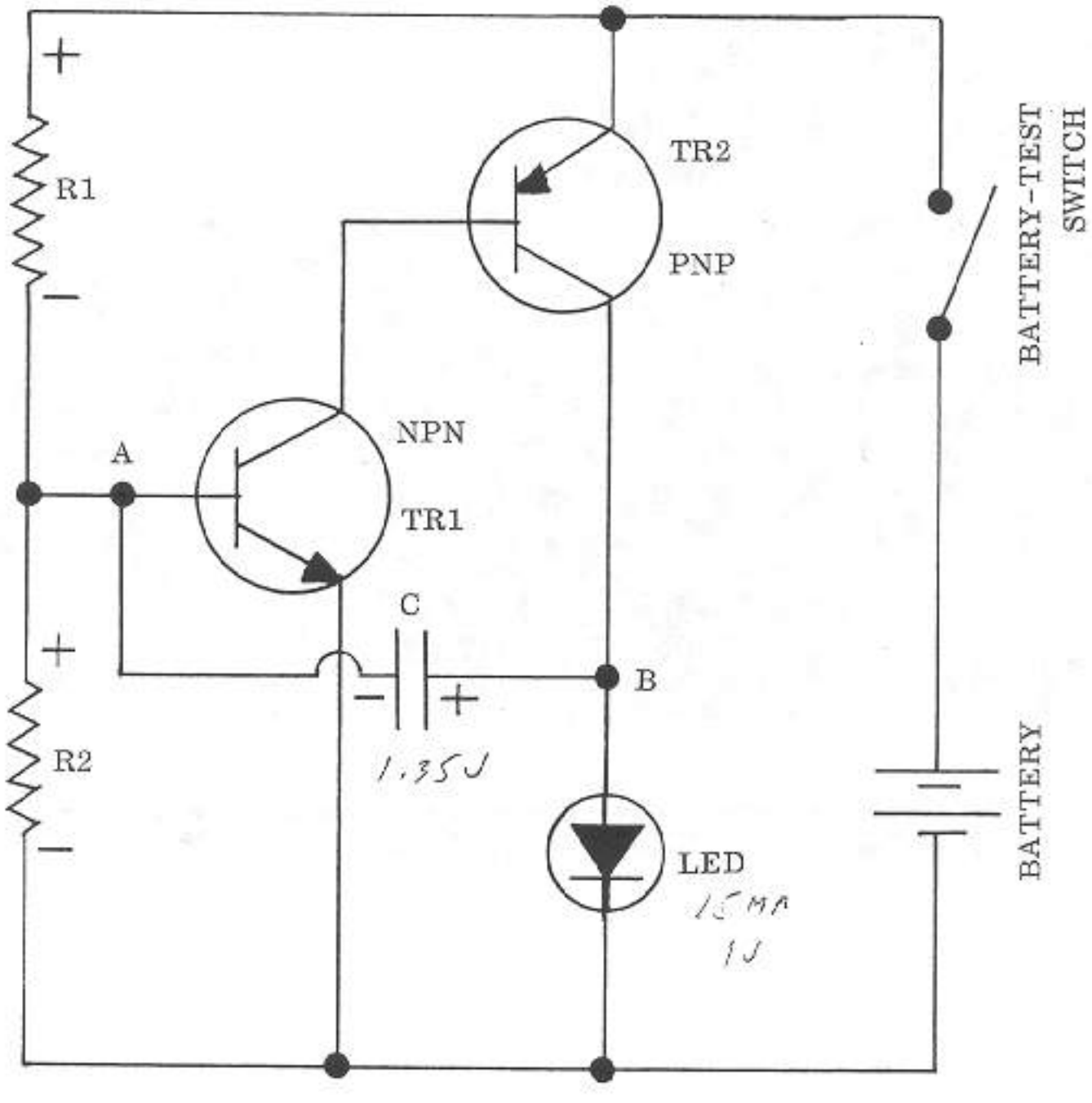
SHUTTER-SPEED SETTING: 1/60 SECOND

mount film speed gear unit

MOUNTING OF FILM-SPEED GEAR UNIT (2)



BASIC LED CIRCUIT

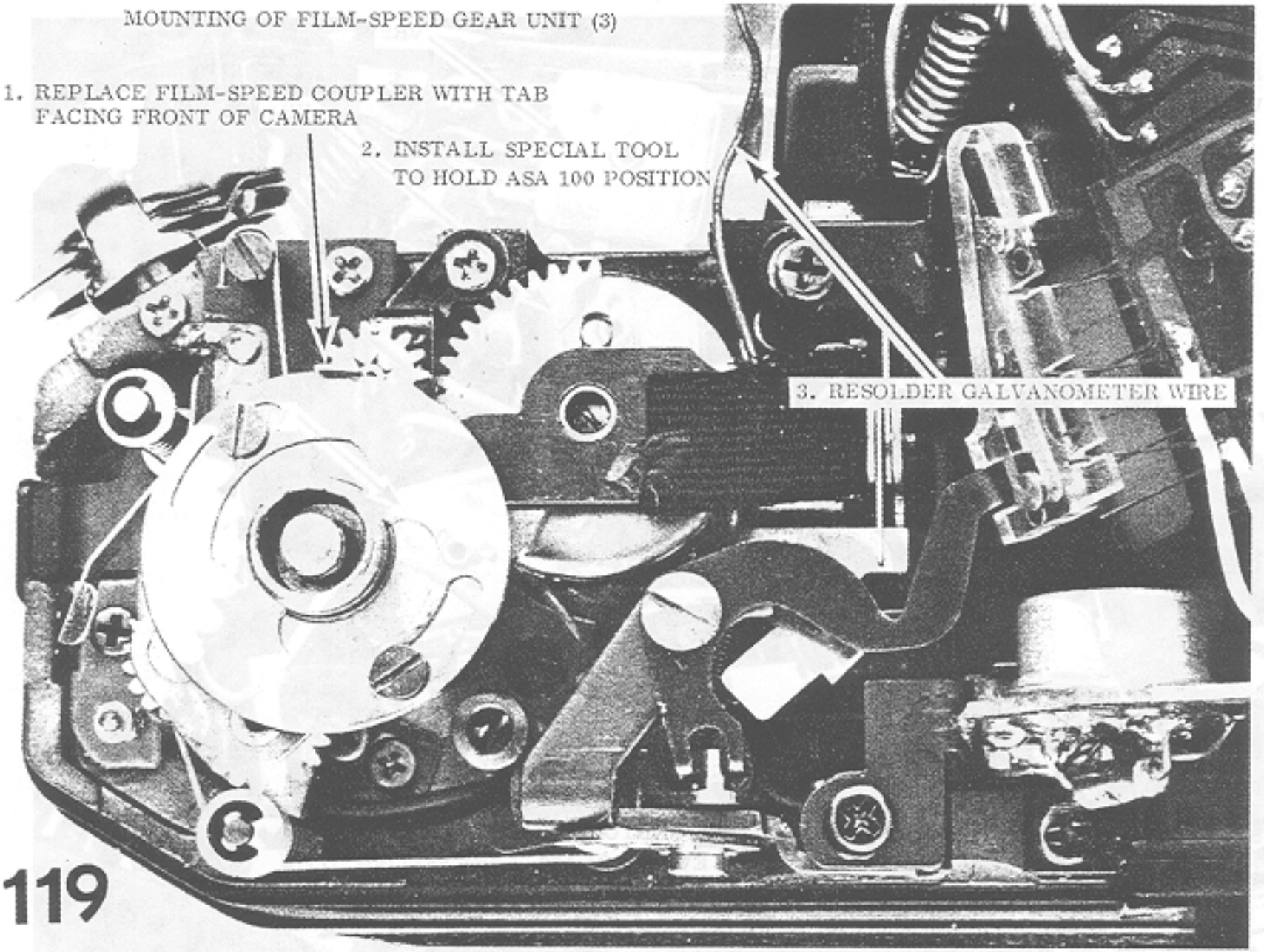


11

on-off Ratio 9:1

Current drain - 1,9 MA

MOUNTING OF FILM-SPEED GEAR UNIT (3)

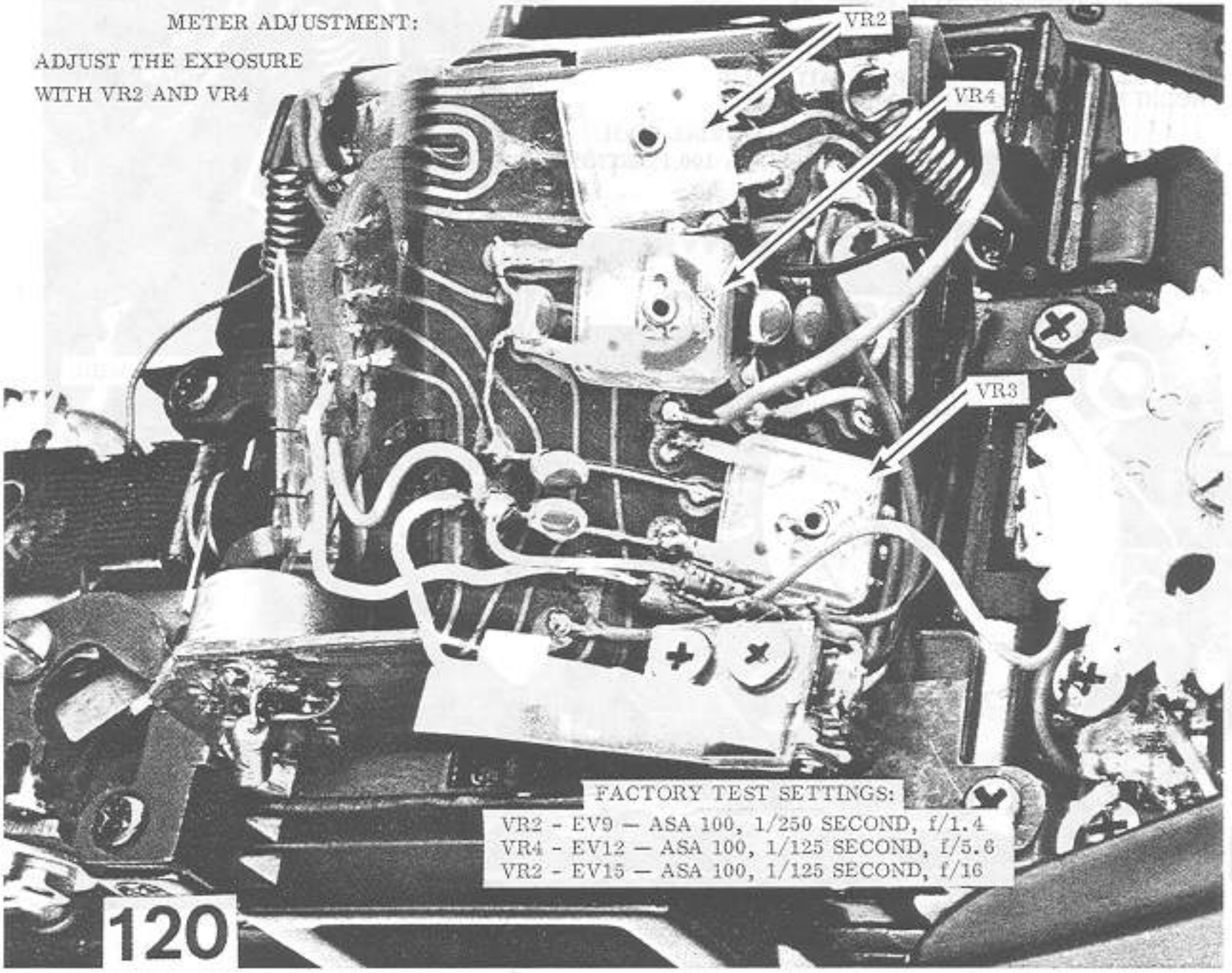

1. REPLACE FILM-SPEED COUPLER WITH TAB FACING FRONT OF CAMERA
2. INSTALL SPECIAL TOOL TO HOLD ASA 100 POSITION
3. RESOLDER GALVANOMETER WIRE

119

mount film sped gear unit

METER ADJUSTMENT:

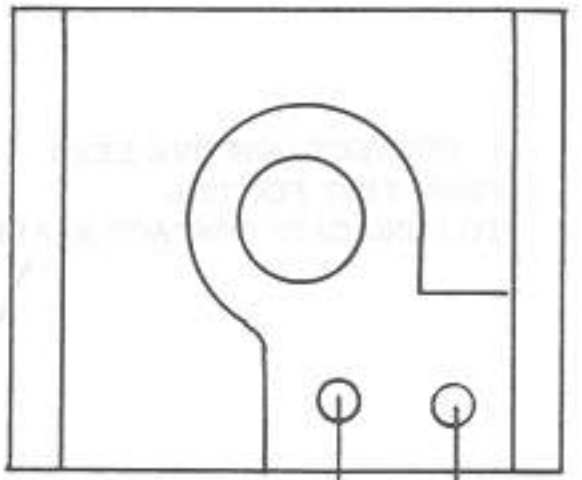
ADJUST THE EXPOSURE
WITH VR2 AND VR4

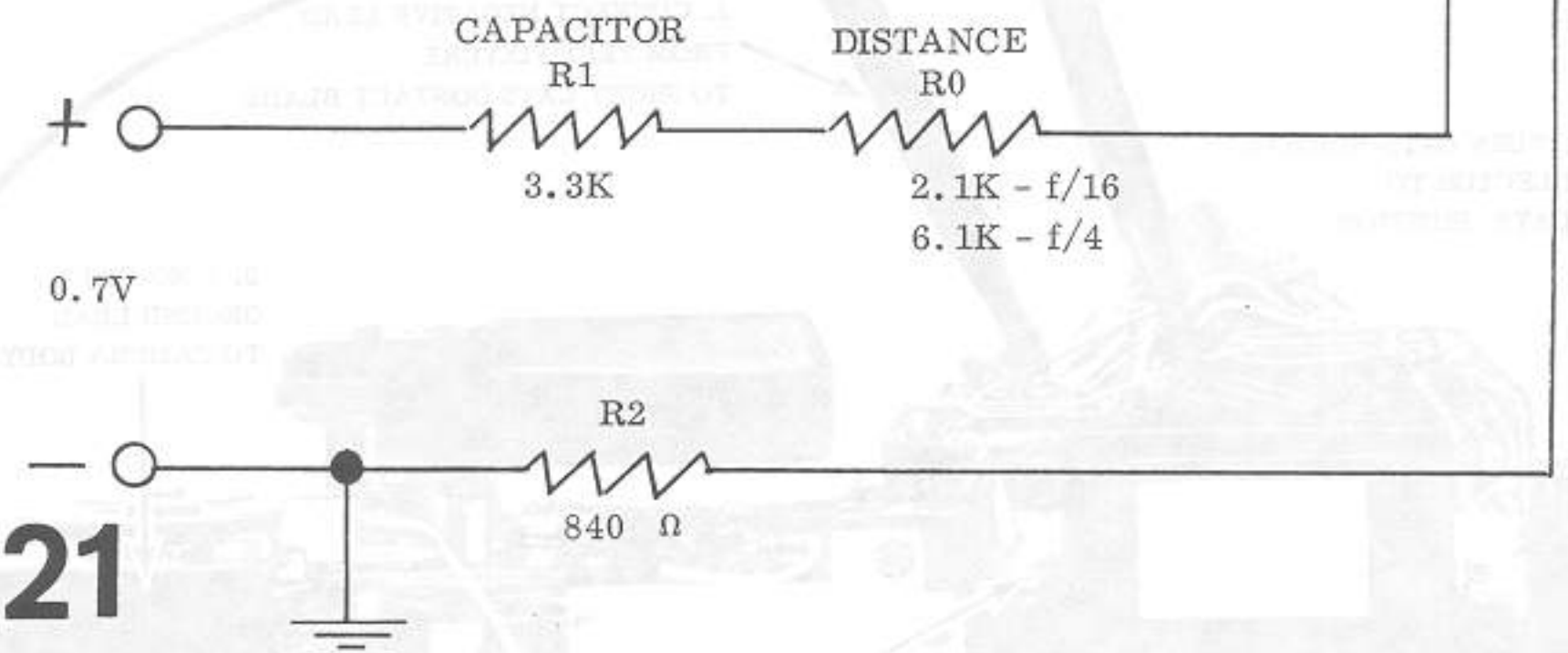


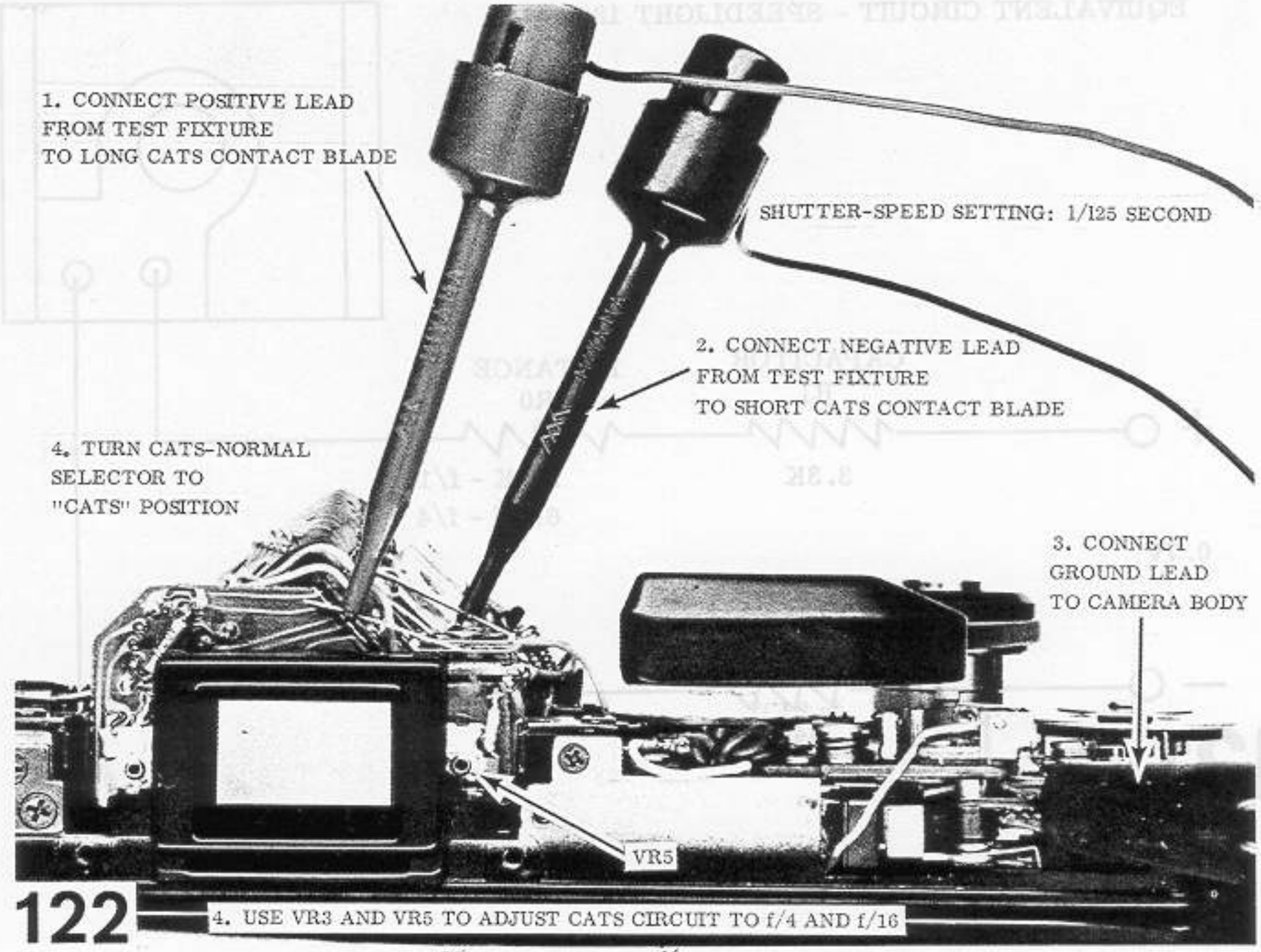
FACTORY TEST SETTINGS:

VR2 - EV9 — ASA 100, 1/250 SECOND, f/1.4
VR4 - EV12 — ASA 100, 1/125 SECOND, f/5.6
VR2 - EV15 — ASA 100, 1/125 SECOND, f/16

EQUIVALENT CIRCUIT - SPEEDLIGHT 133D







122

4. USE VR3 AND VR5 TO ADJUST CATS CIRCUIT TO f/4 AND f/16

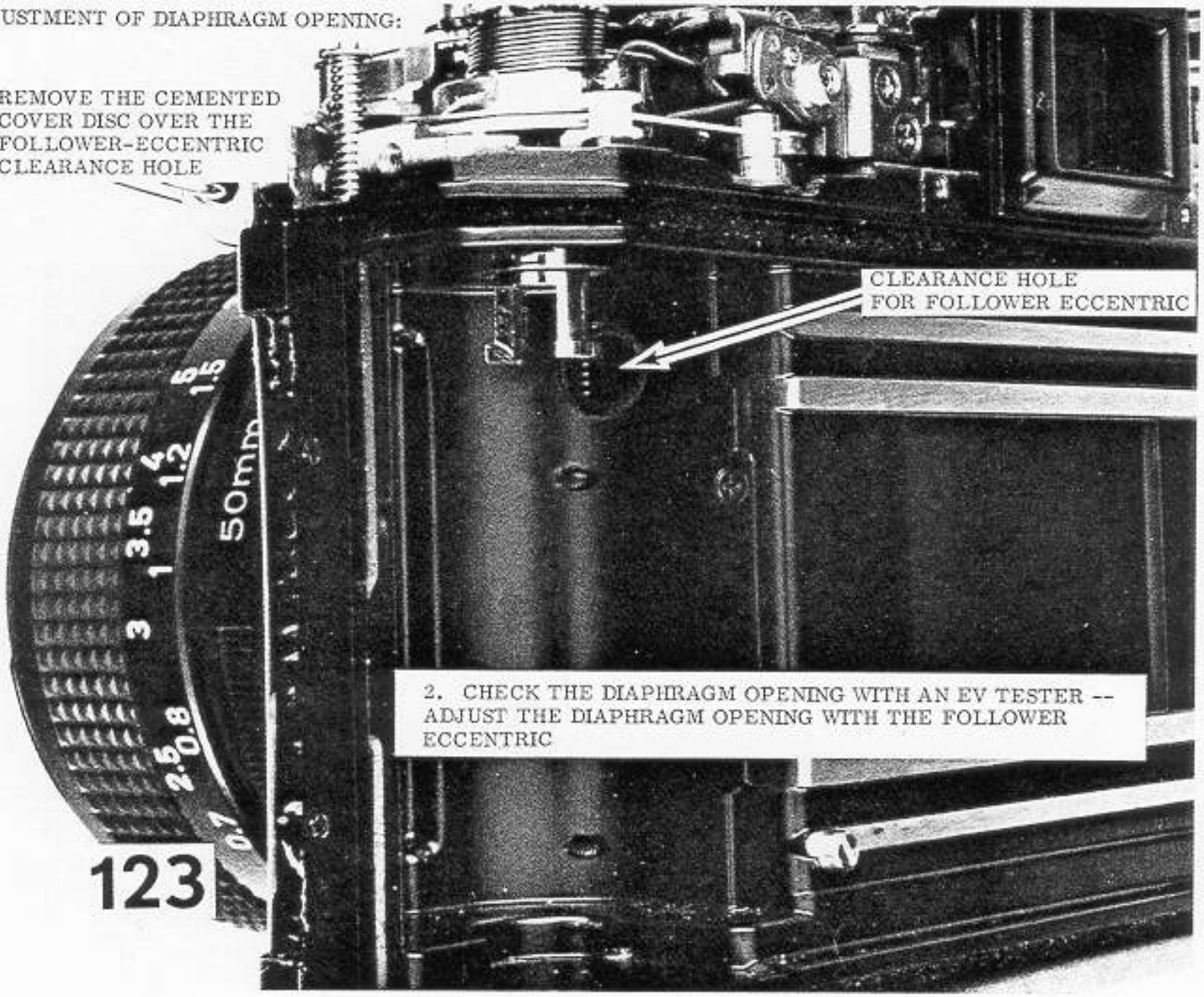
adjust cats circuit

VR3 - level adj. f4

VR5 - slope adj. f16

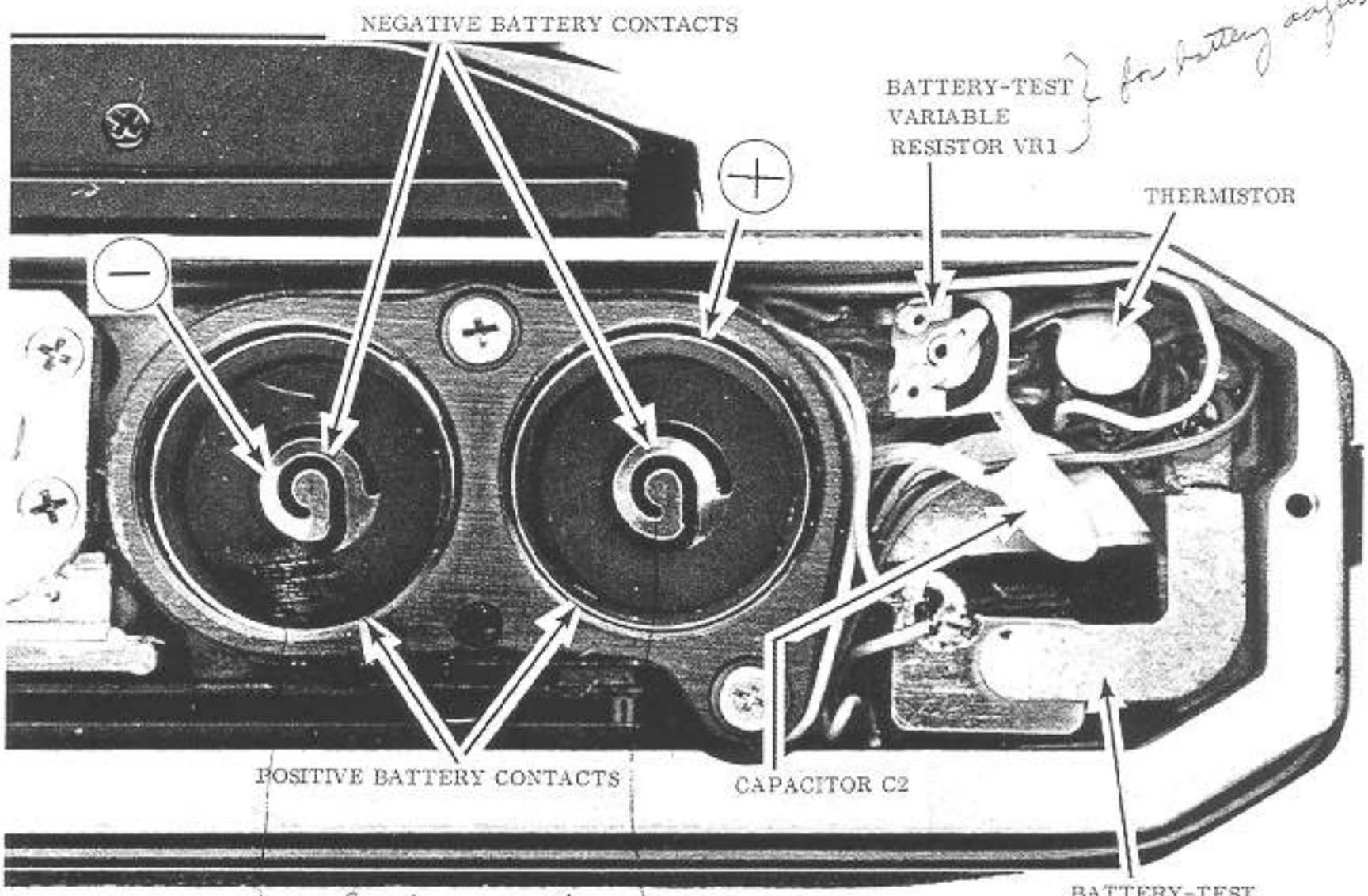
ADJUSTMENT OF DIAPHRAGM OPENING:

1. REMOVE THE CEMENTED COVER DISC OVER THE FOLLOWER-ECCENTRIC CLEARANCE HOLE


CLEARANCE HOLE FOR FOLLOWER ECCENTRIC
2. CHECK THE DIAPHRAGM OPENING WITH AN EV TESTER -- ADJUST THE DIAPHRAGM OPENING WITH THE FOLLOWER ECCENTRIC
123

ajust diaphragm opening

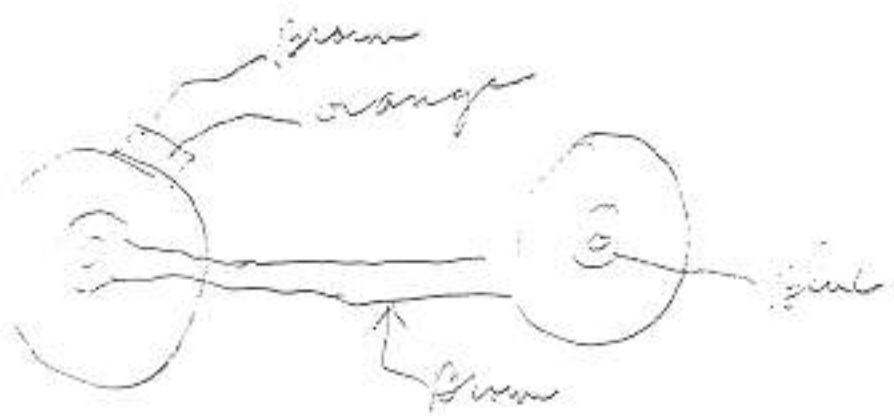
Check insulation on battery compartment

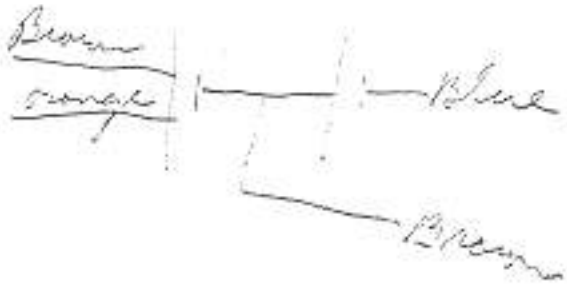


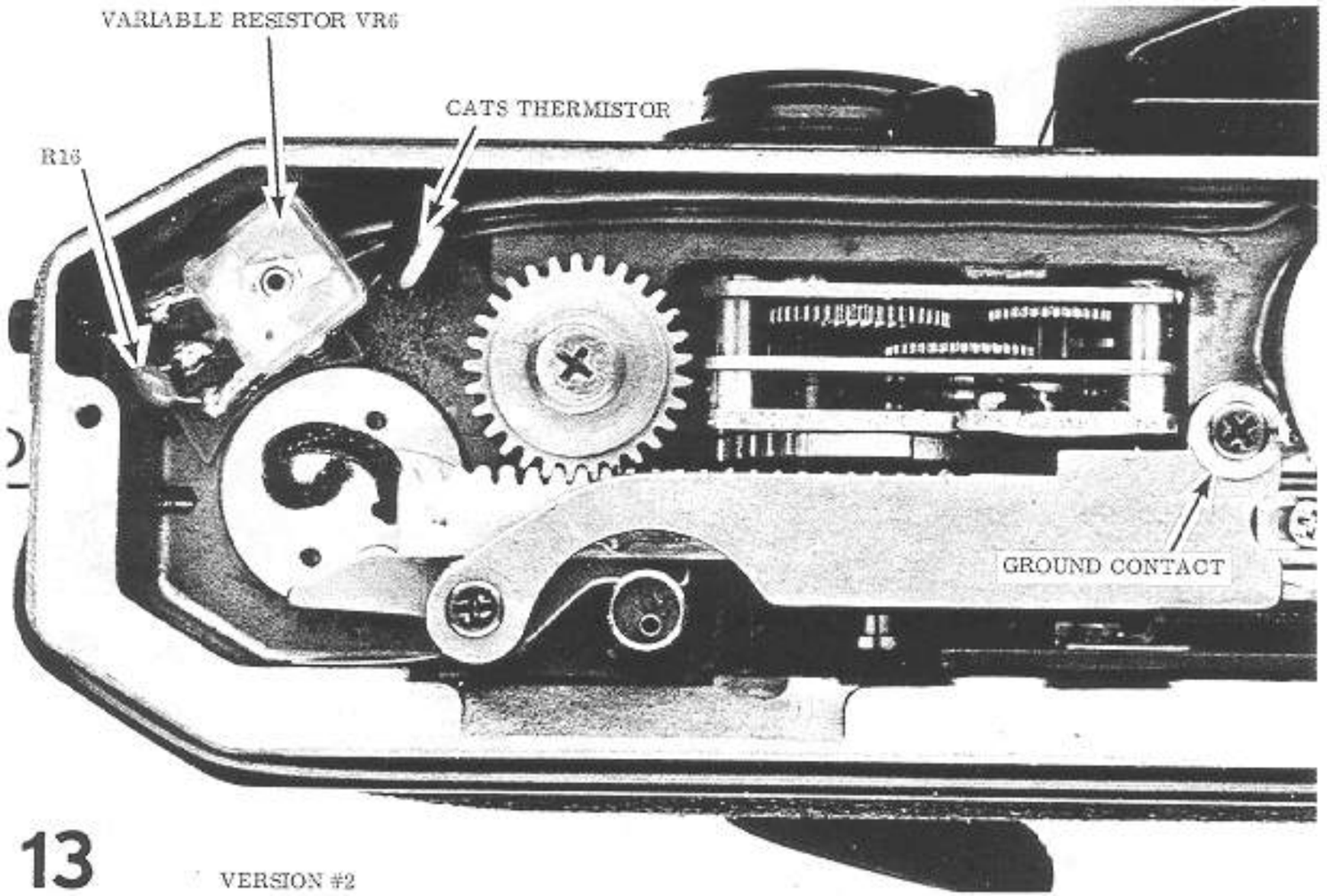
Power supply
Pos
neg

BATTERY-TEST-CIRCUIT ADJUSTMENT: Hook a DC power supply to the battery compartment as shown by the polarity indications. With the power supply set at 2.31 volts, the LED should operate when you close the battery-test switch; the LED should not operate at 2.26 volts. Make the adjustment with the battery-test variable resistor VR1.

If battery runs down fast = Take out battery holder + tape underside (maybe shorted)



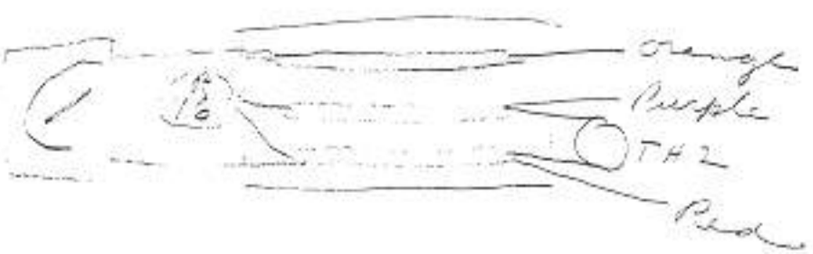


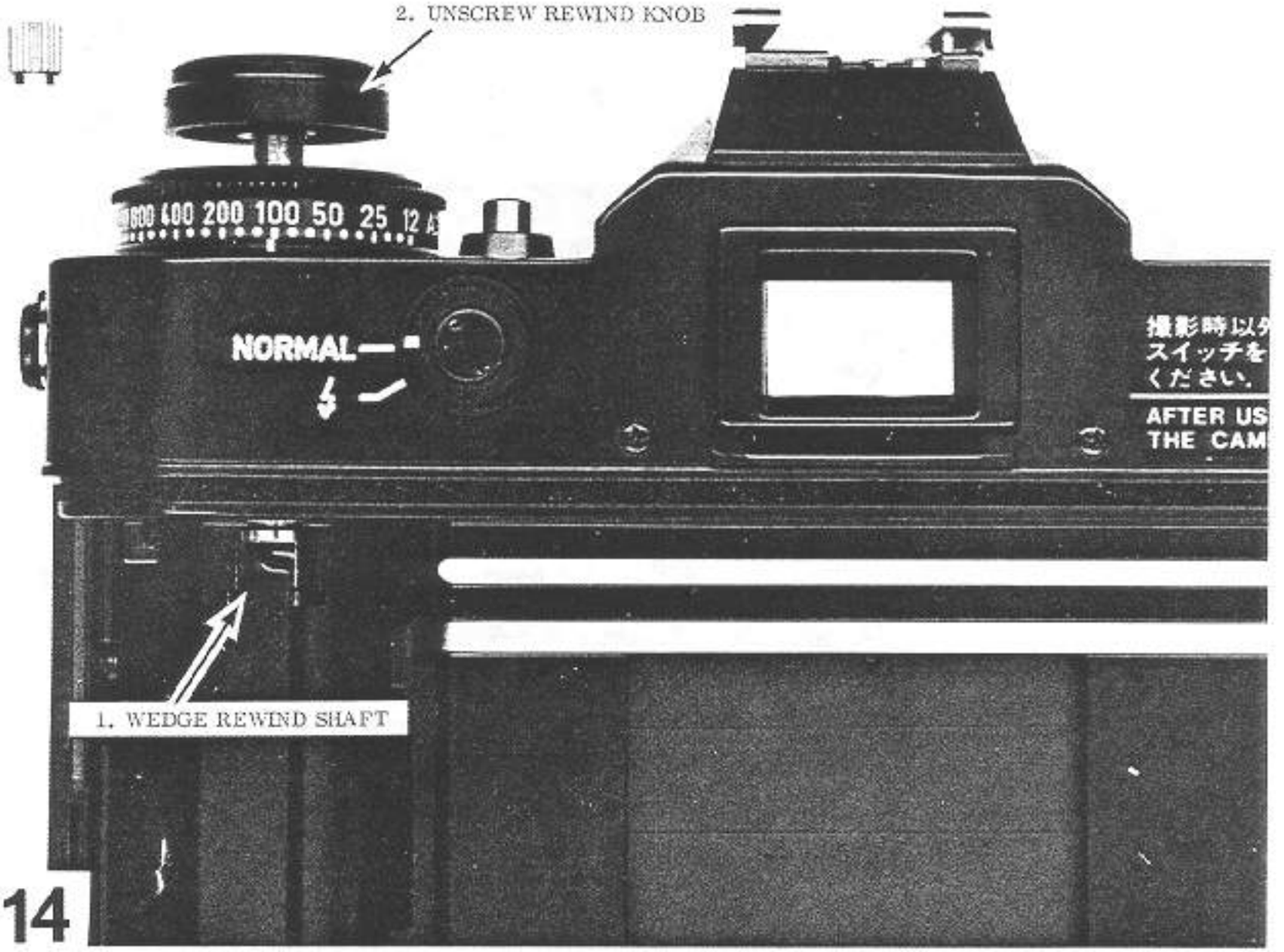


13 VERSION #2

The original Canon EF (version #1) does not have the CATS temperature-compensation circuit. The temperature-compensation circuit was added as a modification to the model illustrated (version #2). Later models (versions #3 and #4) have the thermistor and the fixed resistor at the top of the camera; in these cameras, the only part on the circuit board shown is the variable resistor VR6.

The red wire connects resistor VR6 to ground in the model illustrated. Later models use a screw to hold the VR6 circuit board. So the screw acts as a ground connection and eliminates the need for the red wire.





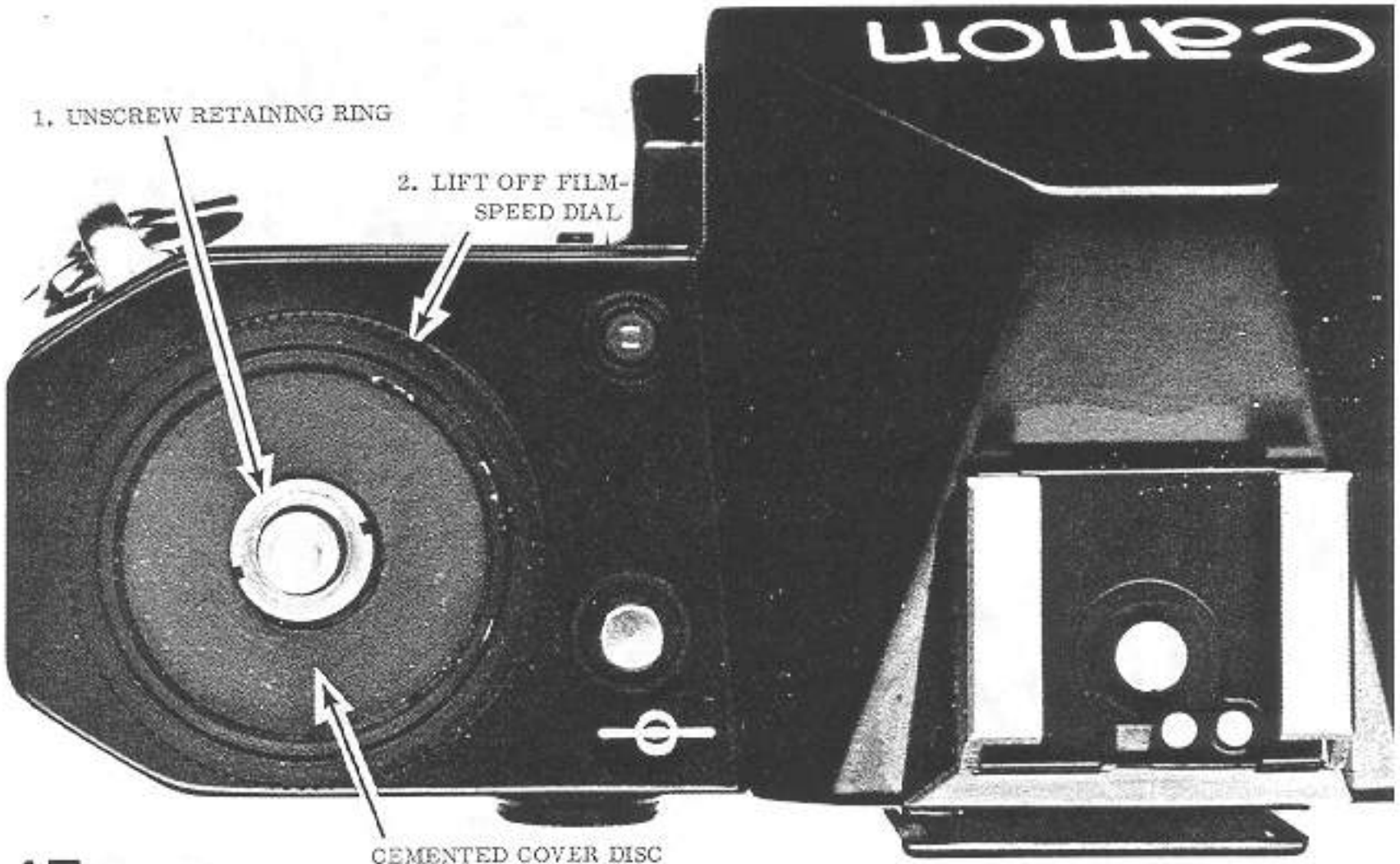
14

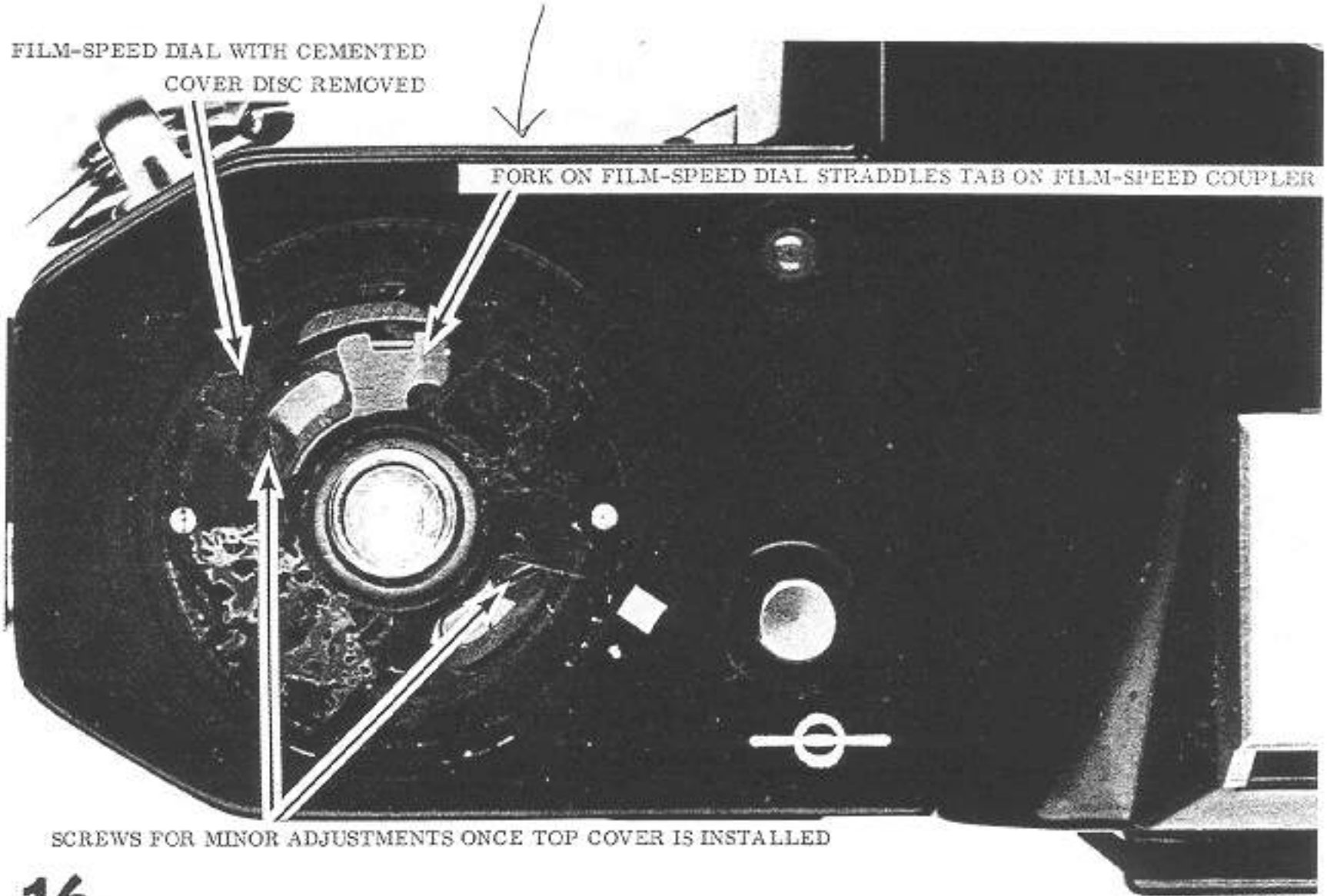
Disassembly

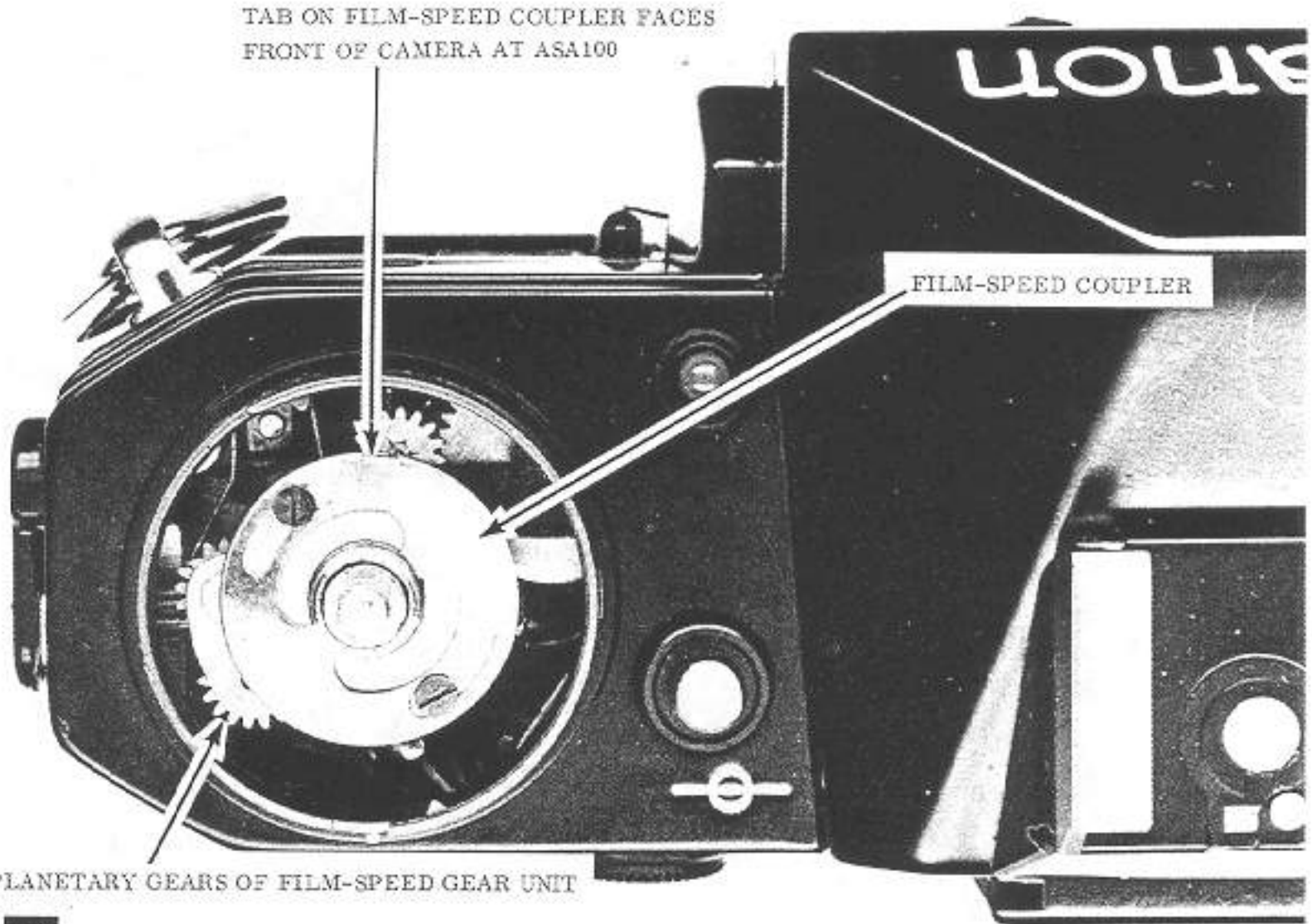
ASA 100

BULB

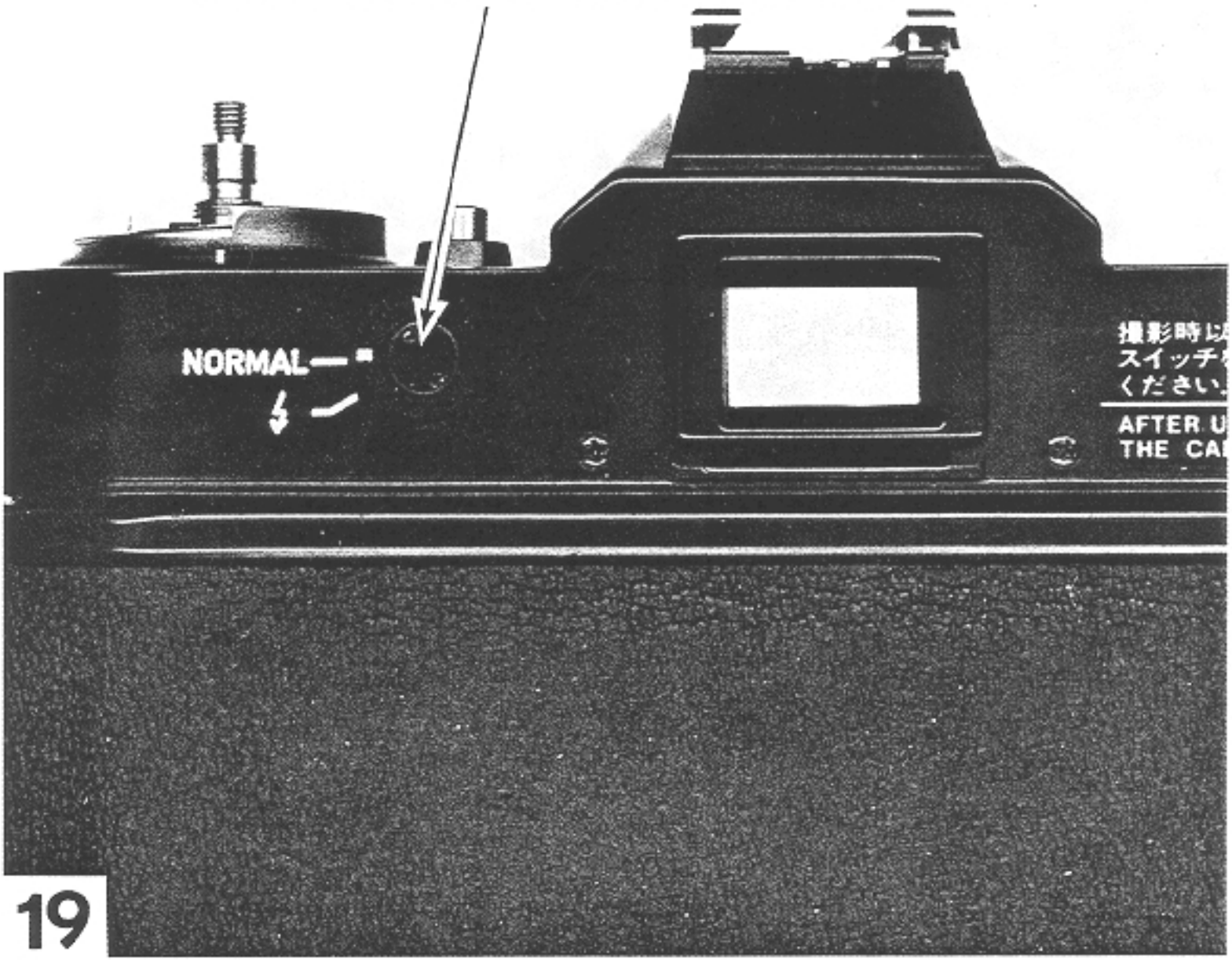
On-off selector off


1. UNSCREW RETAINING RING
2. LIFT OFF FILM-SPEED DIAL
CEMENTED COVER DISC
Canon

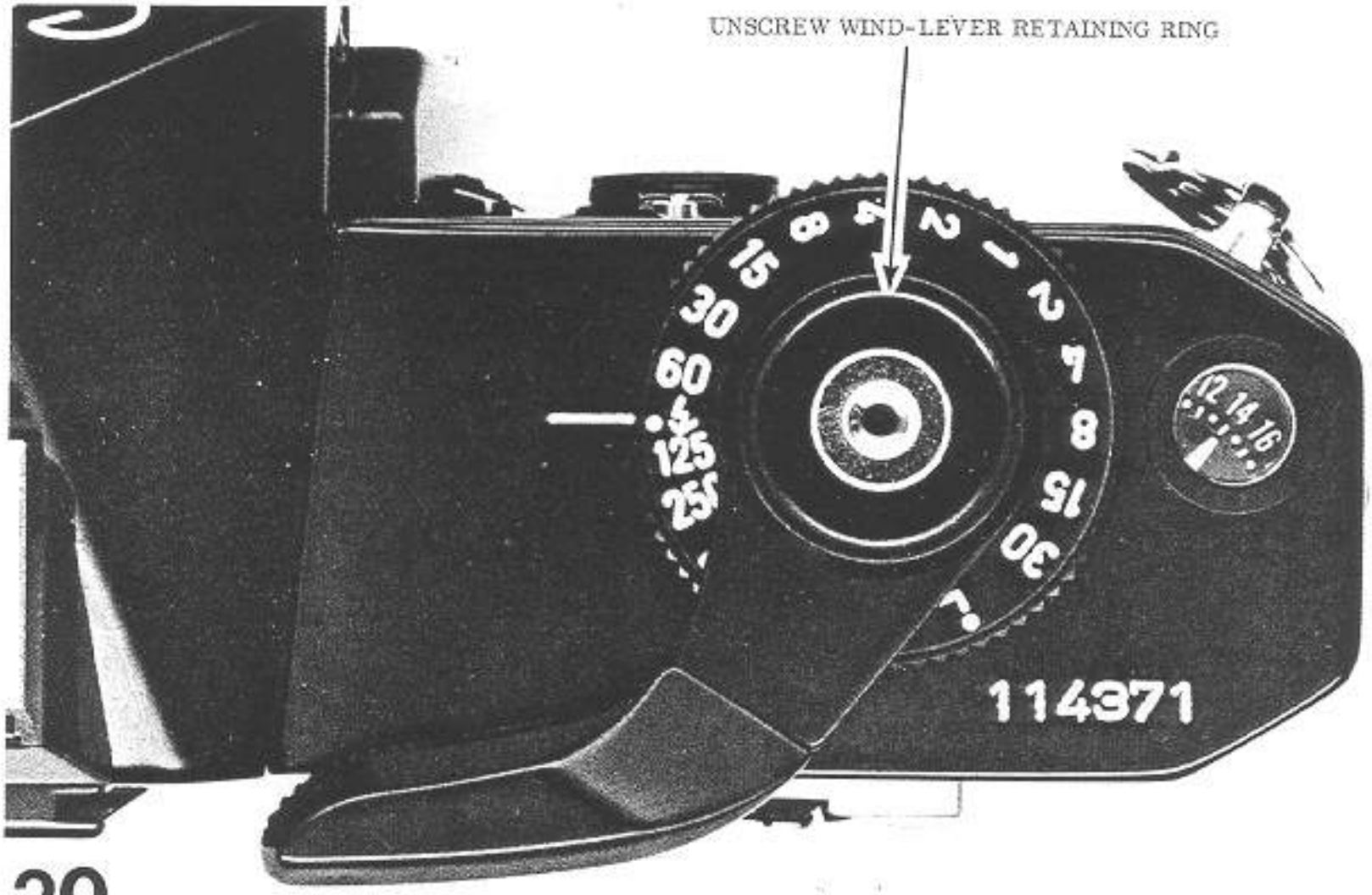

FILM-SPEED DIAL WITH CEMENTED COVER DISC REMOVED
FORK ON FILM-SPEED DIAL STRADDLES TAB ON FILM-SPEED COUPLER
SCREWS FOR MINOR ADJUSTMENTS ONCE TOP COVER IS INSTALLED

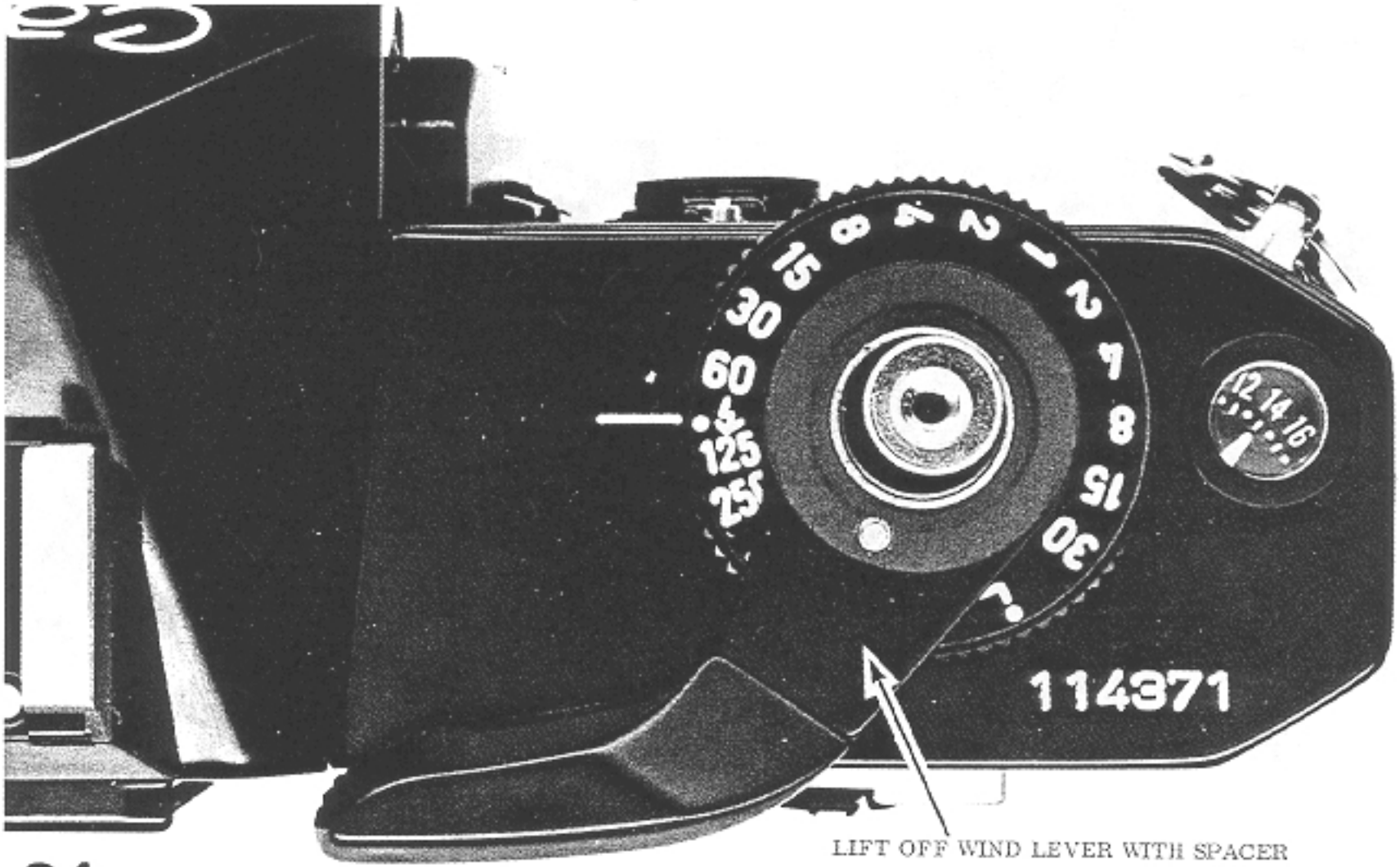

TAB ON FILM-SPEED COUPLER FACES
FRONT OF CAMERA AT ASA100
FILM-SPEED COUPLER
PLANETARY GEARS OF FILM-SPEED GEAR UNIT

SPECIAL TOOL MAY BE SCREWED ONTO
RETAINING-RING THREADS TO HOLD
PARTS IN ASA100 POSITION
NORMAL

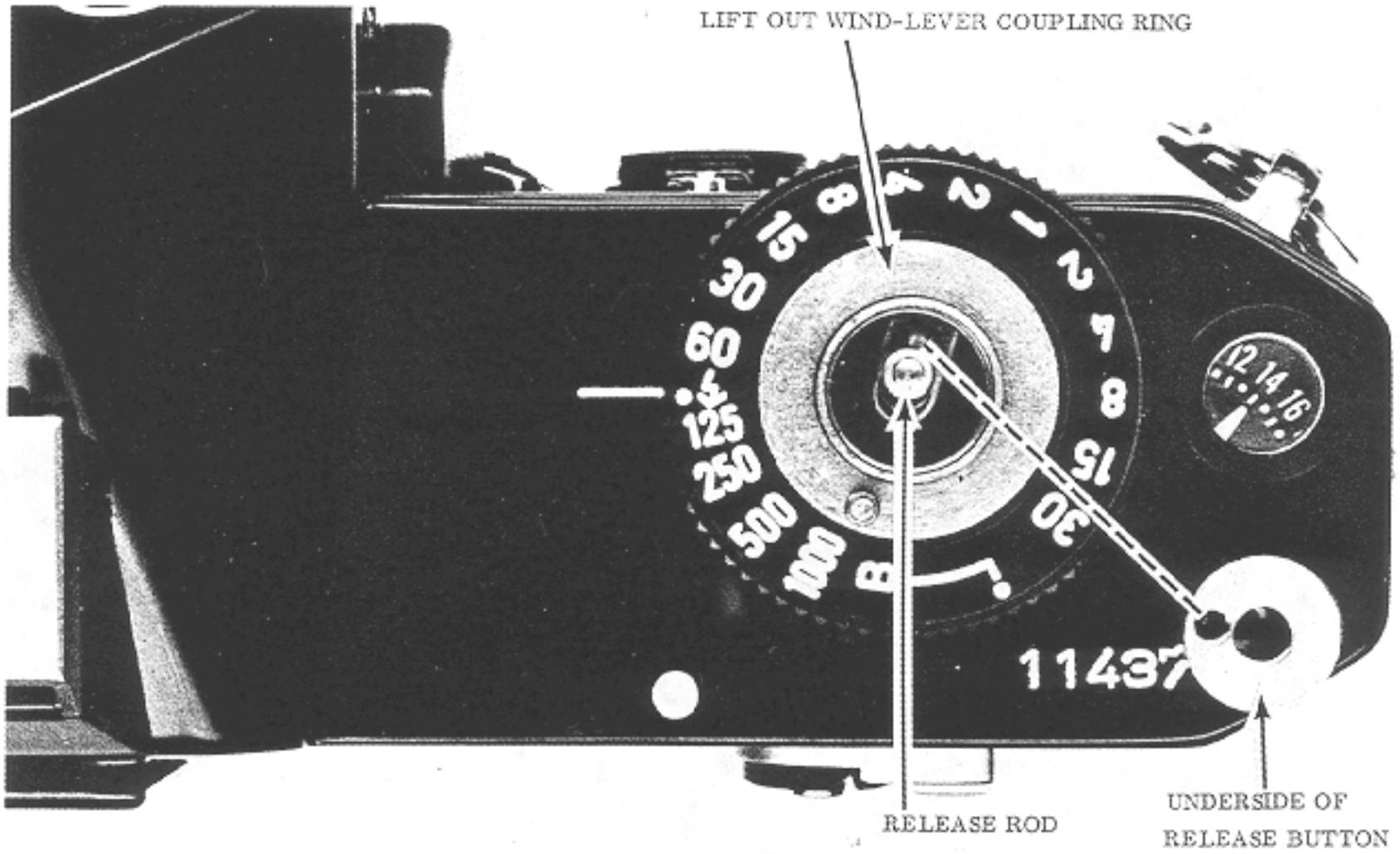

UNSCREW RETAINING SCREW AND LIFT OFF CATS-NORMAL SELECTOR
NORMAL
撮影時は
スイッチ
ください
AFTER U
THE CA

19


UNSCREW WIND-LEVER RETAINING RING
114371

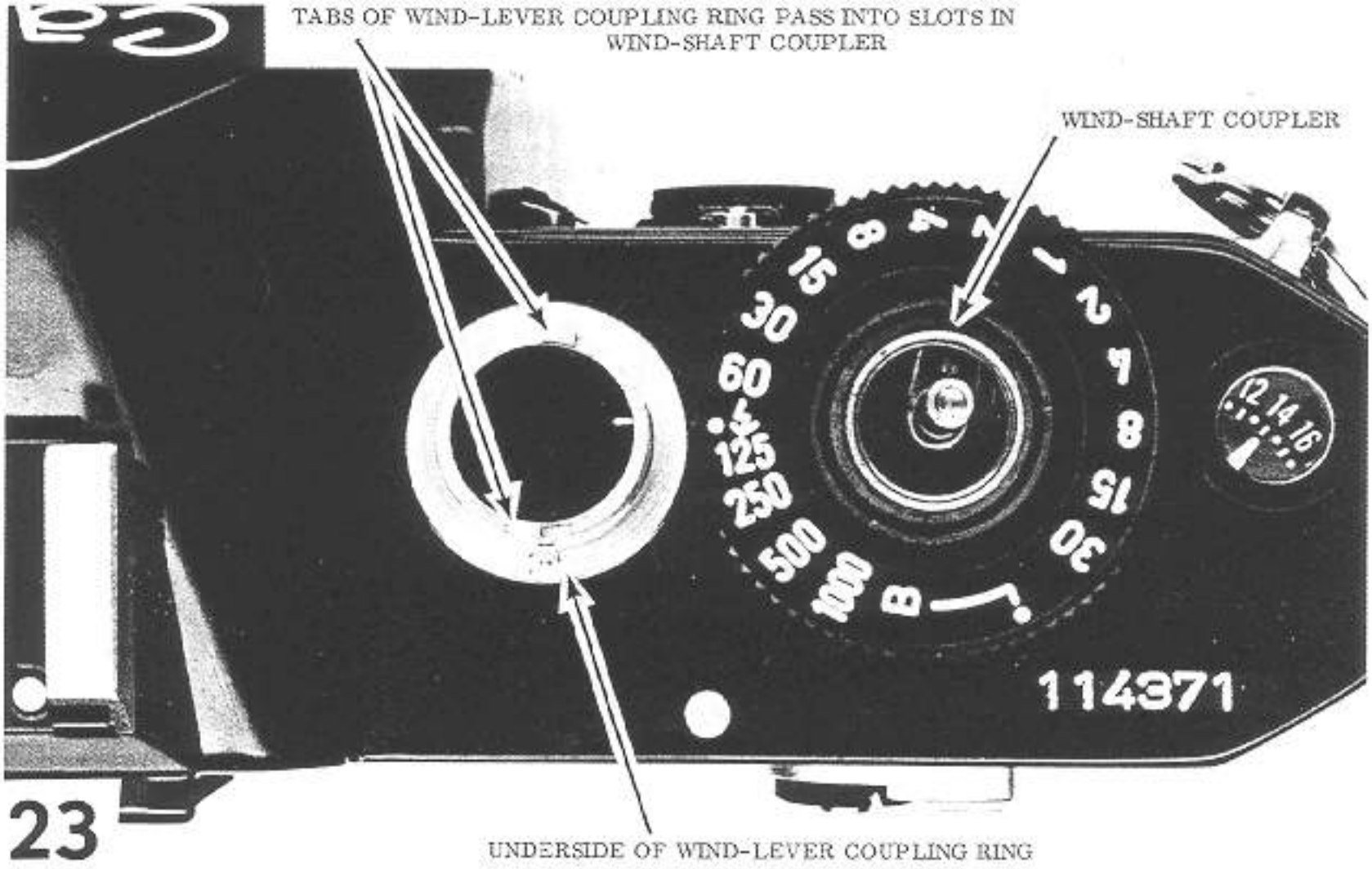


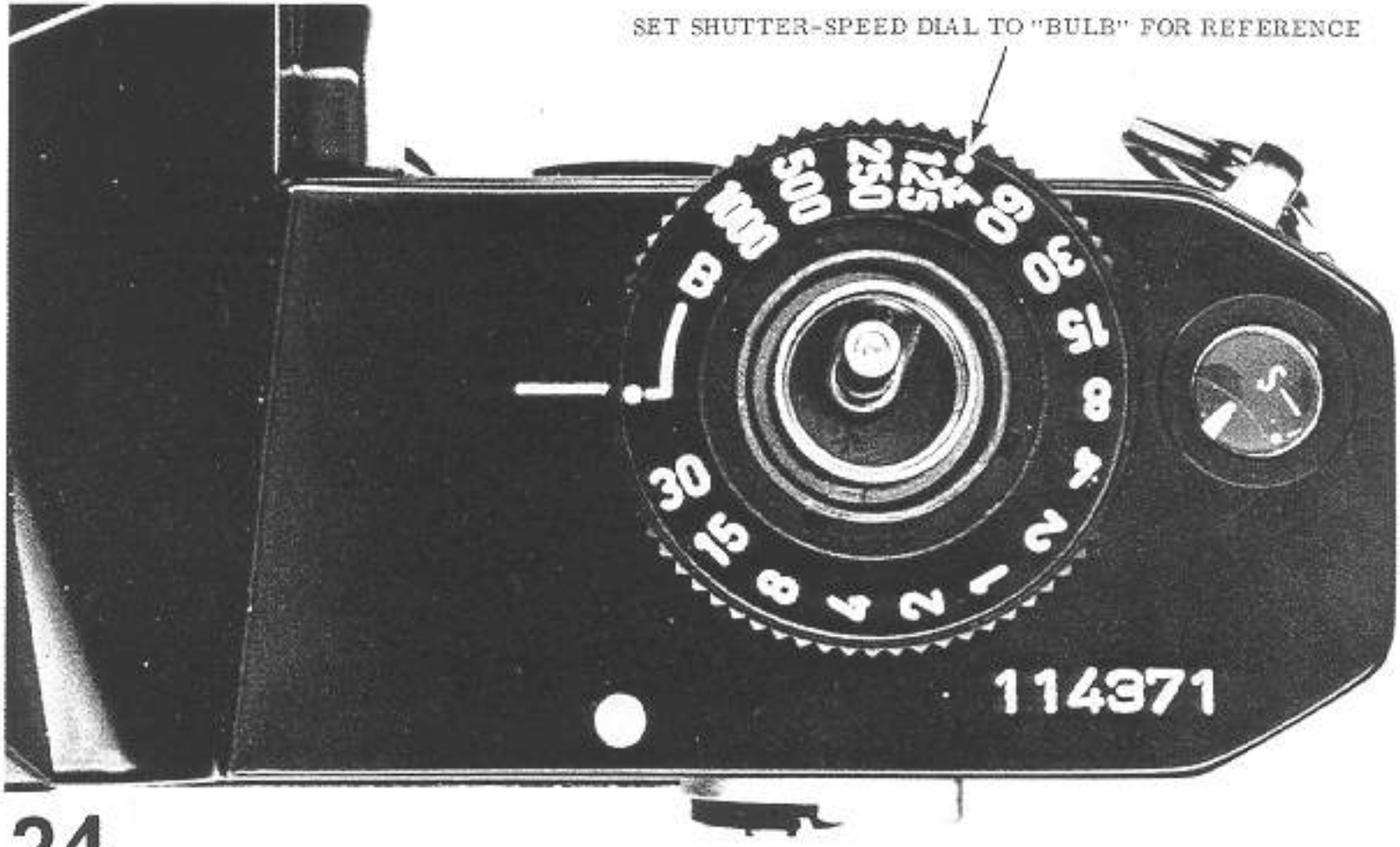
21

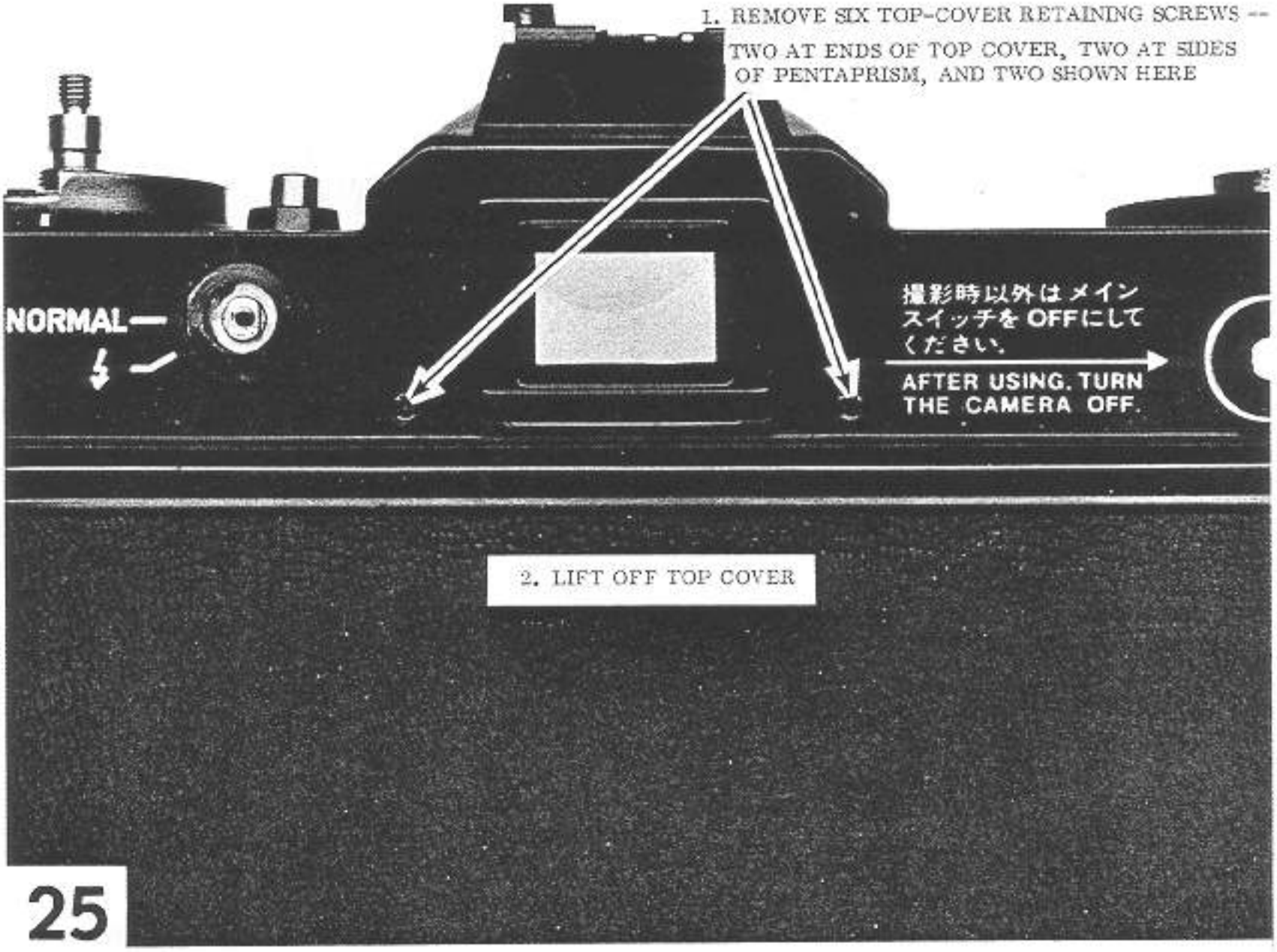


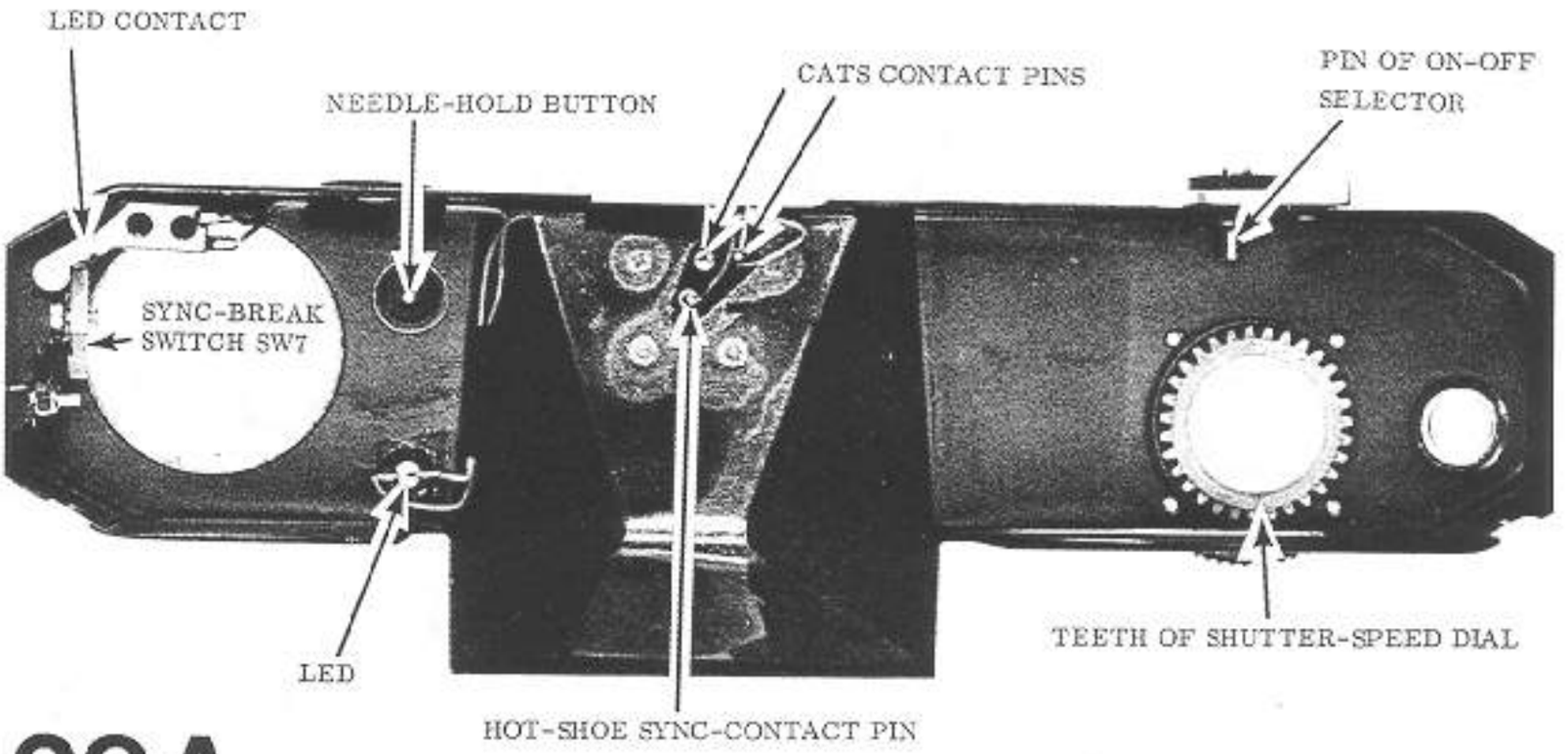
22

NOTE: IT'S NOT NECESSARY TO REMOVE THE RELEASE BUTTON; IF YOU DO, NOTE THE HOLE IN THE RELEASE BUTTON THAT FITS OVER THE PIN ON THE RELEASE ROD

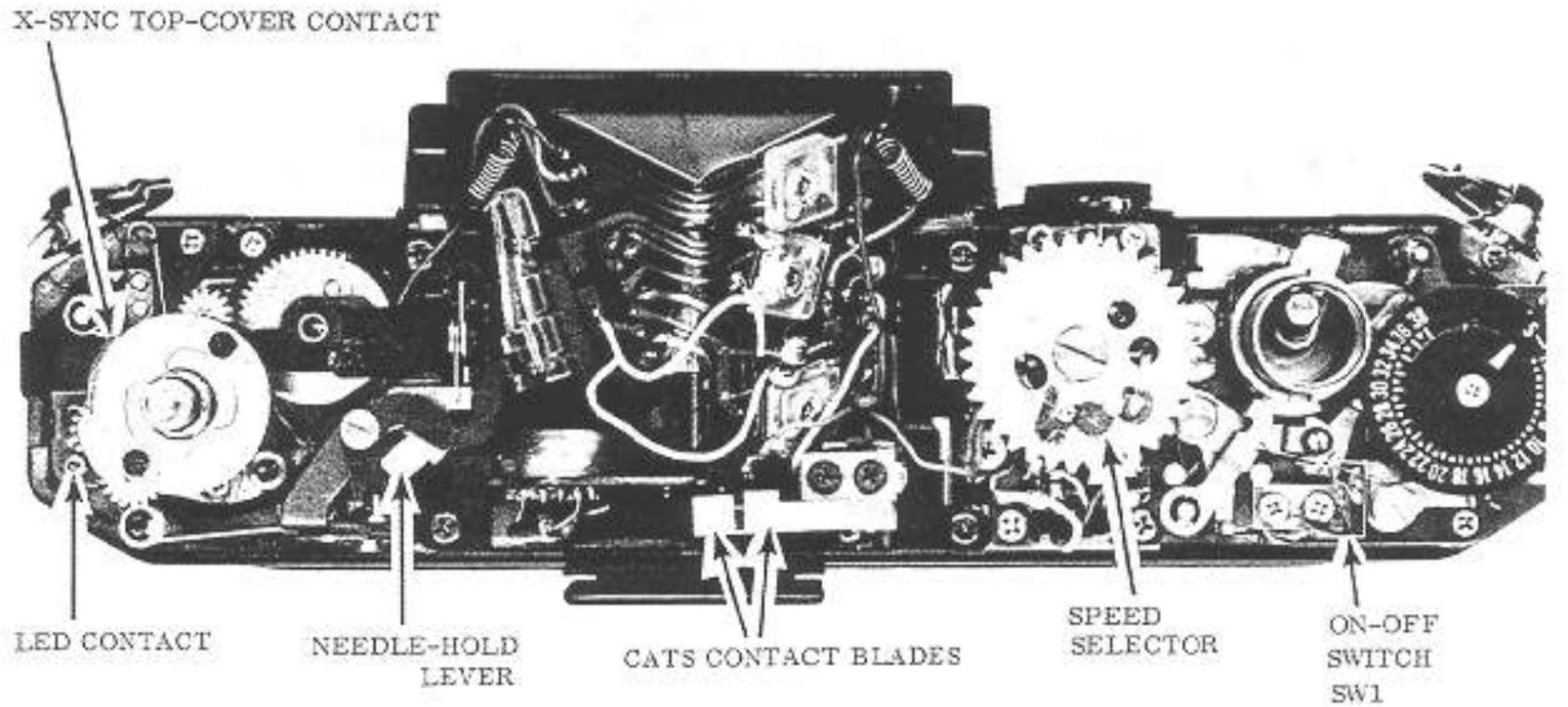

TABS OF WIND-LEVER COUPLING RING PASS INTO SLOTS IN WIND-SHAFT COUPLER
WIND-SHAFT COUPLER
UNDERSIDE OF WIND-LEVER COUPLING RING
114371


SET SHUTTER-SPEED DIAL TO "BULB" FOR REFERENCE
B
M
500
250
125
60
30
15
8
4
2
1
2
4
8
15
30
114371


1. REMOVE SIX TOP-COVER RETAINING SCREWS --
TWO AT ENDS OF TOP COVER, TWO AT SIDES OF PENTAPRISM, AND TWO SHOWN HERE
NORMAL
撮影時以外はメイン
スイッチを OFFにして
ください.
AFTER USING. TURN
THE CAMERA OFF.
2. LIFT OFF TOP COVER


LED CONTACT
NEEDLE-HOLD BUTTON
CATS CONTACT PINS
PIN OF ON-OFF SELECTOR
SYNC-BREAK SWITCH SW7
LED
HOT-SHOE SYNC-CONTACT PIN
TEETH OF SHUTTER-SPEED DIAL

26A

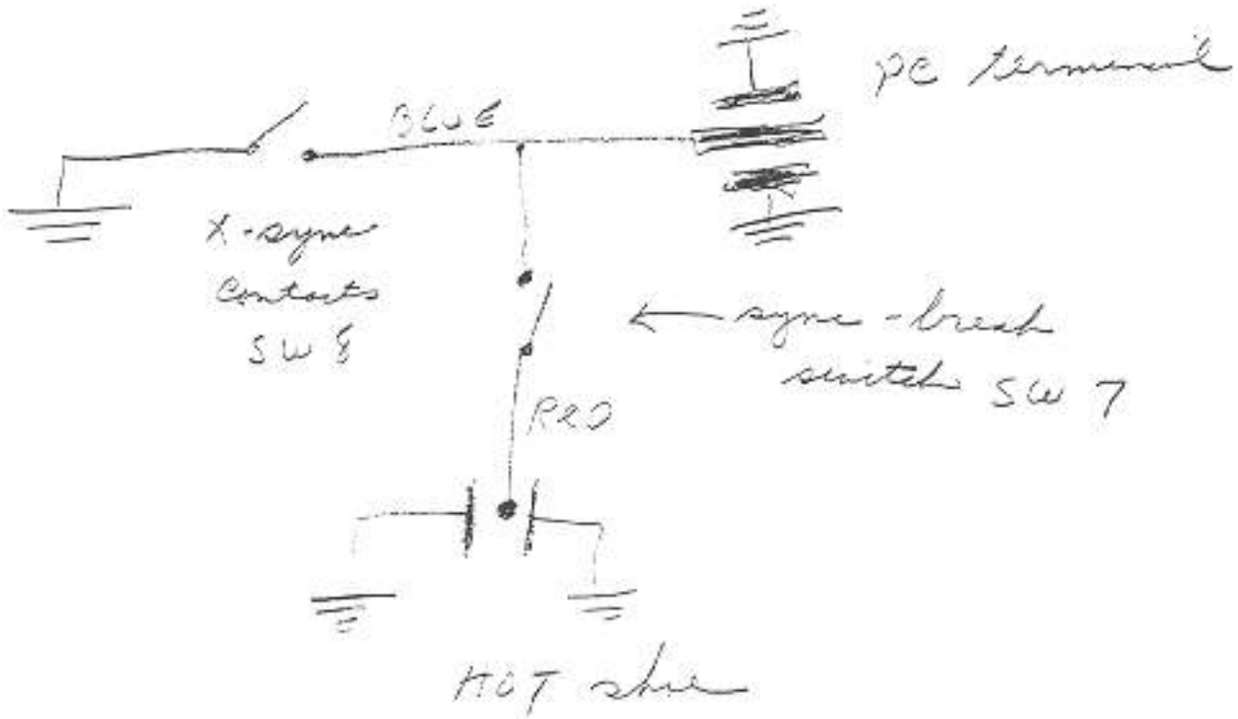

X-SYNC TOP-COVER CONTACT
LED CONTACT
NEEDLE-HOLD LEVER
CATS CONTACT BLADES
SPEED SELECTOR
ON-OFF SWITCH SW1

26B

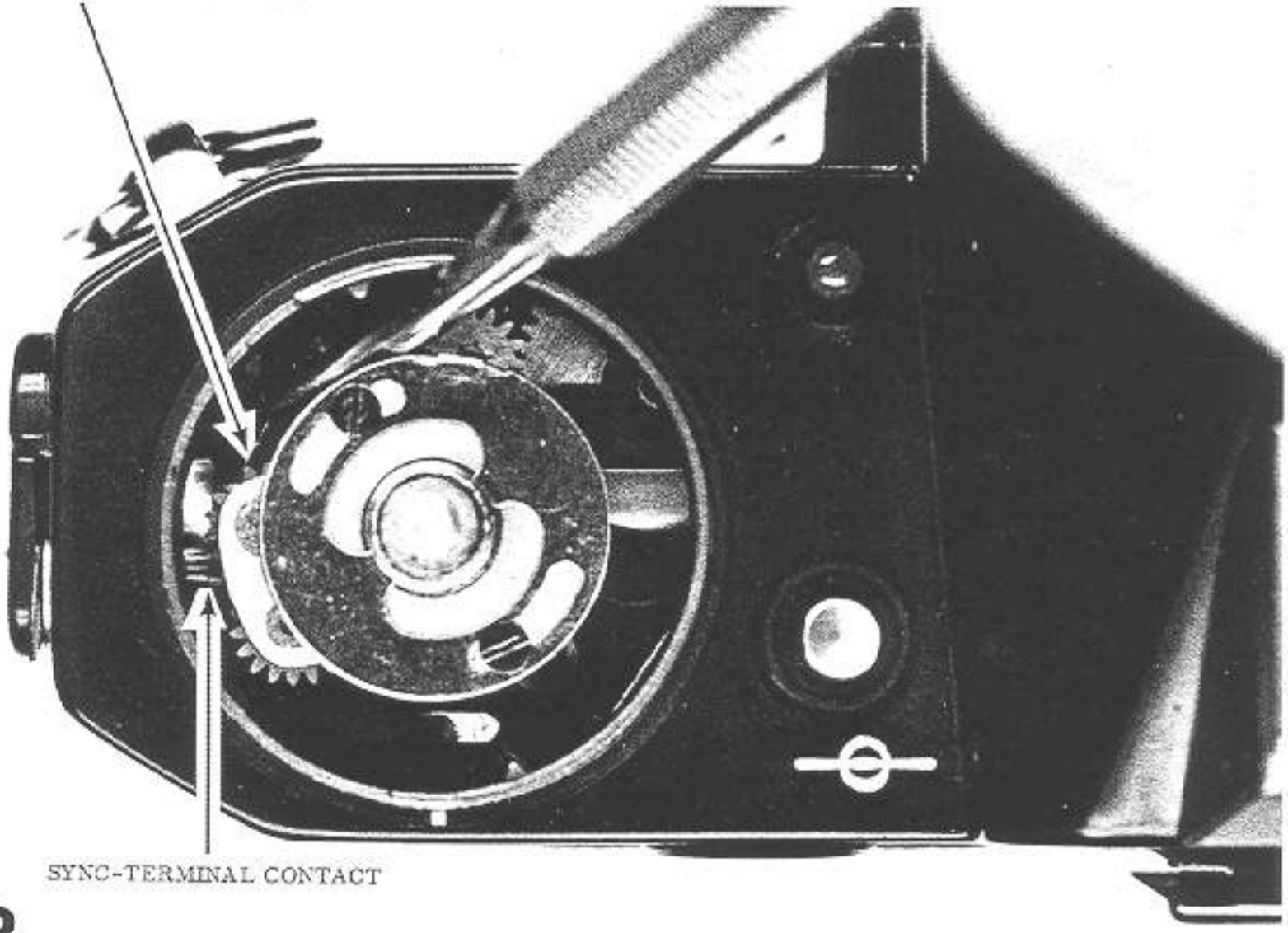
LED

THE LED SHOULD GLOW WITH 2 VOLTS
APPLIED ACROSS THE TERMINALS

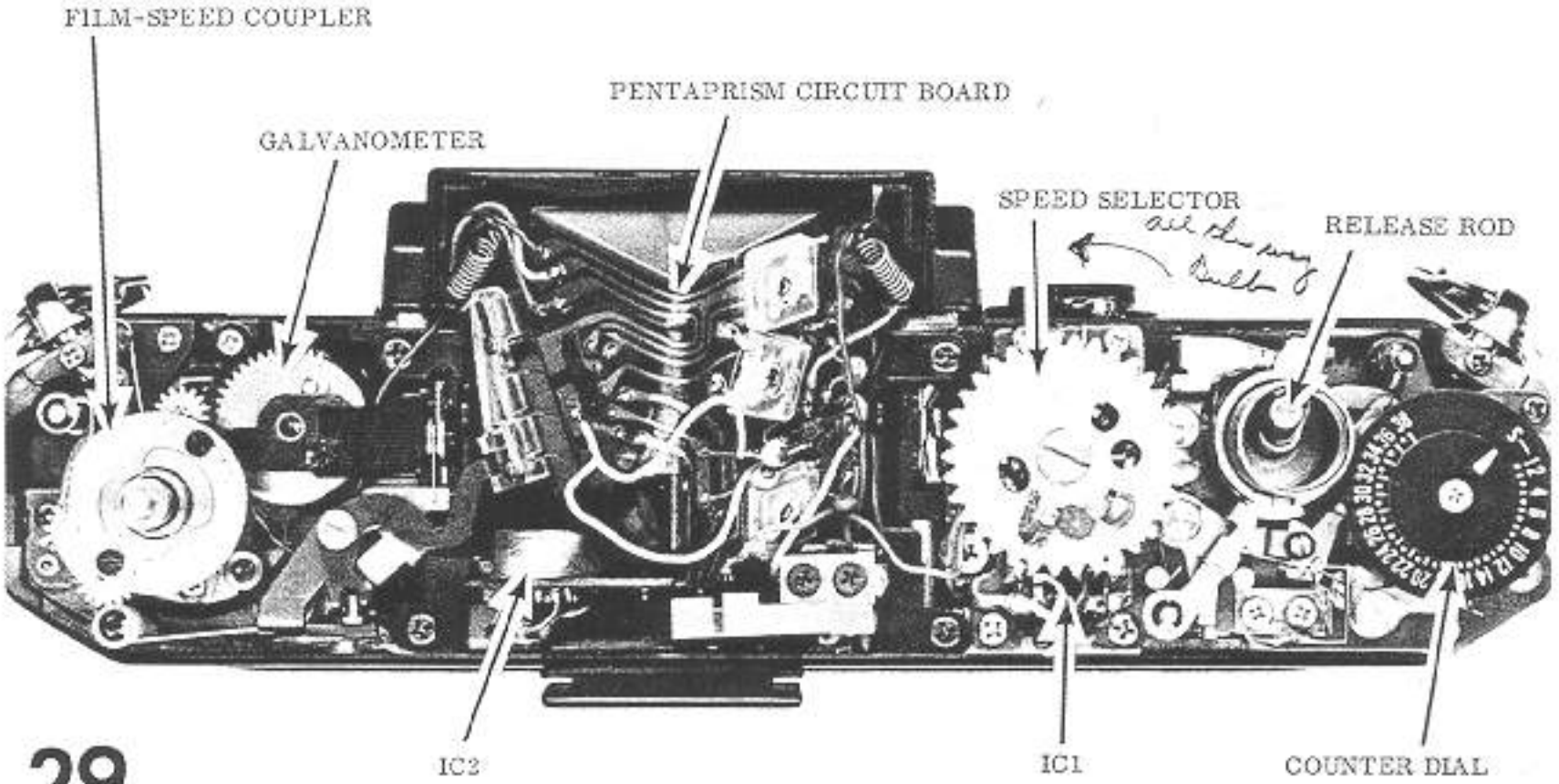
27



WHEN REPLACING THE TOP COVER, HOLD THE X-SYNC TOP-COVER CONTACT AWAY FROM THE SYNC-TERMINAL CONTACT



SYNC-TERMINAL CONTACT

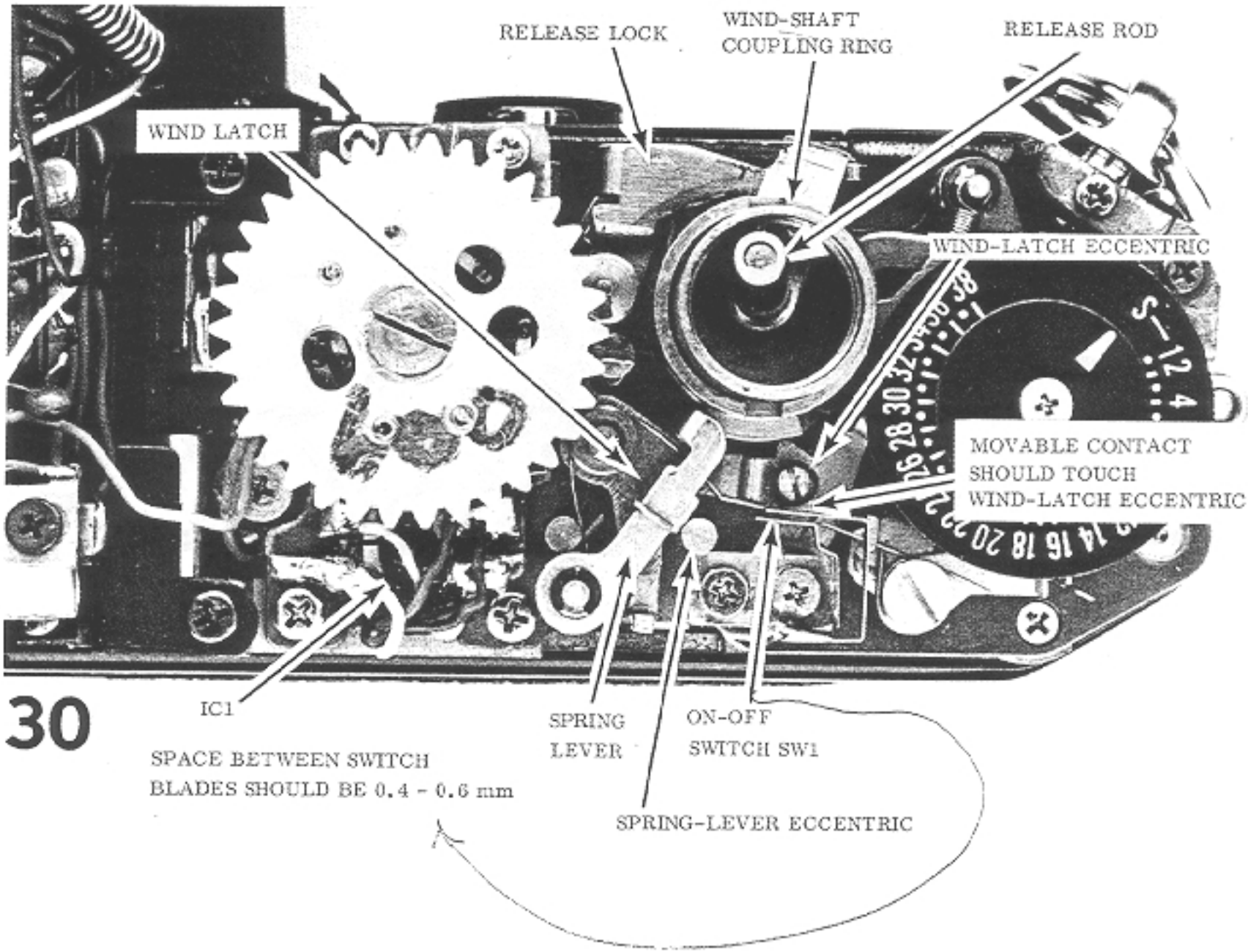


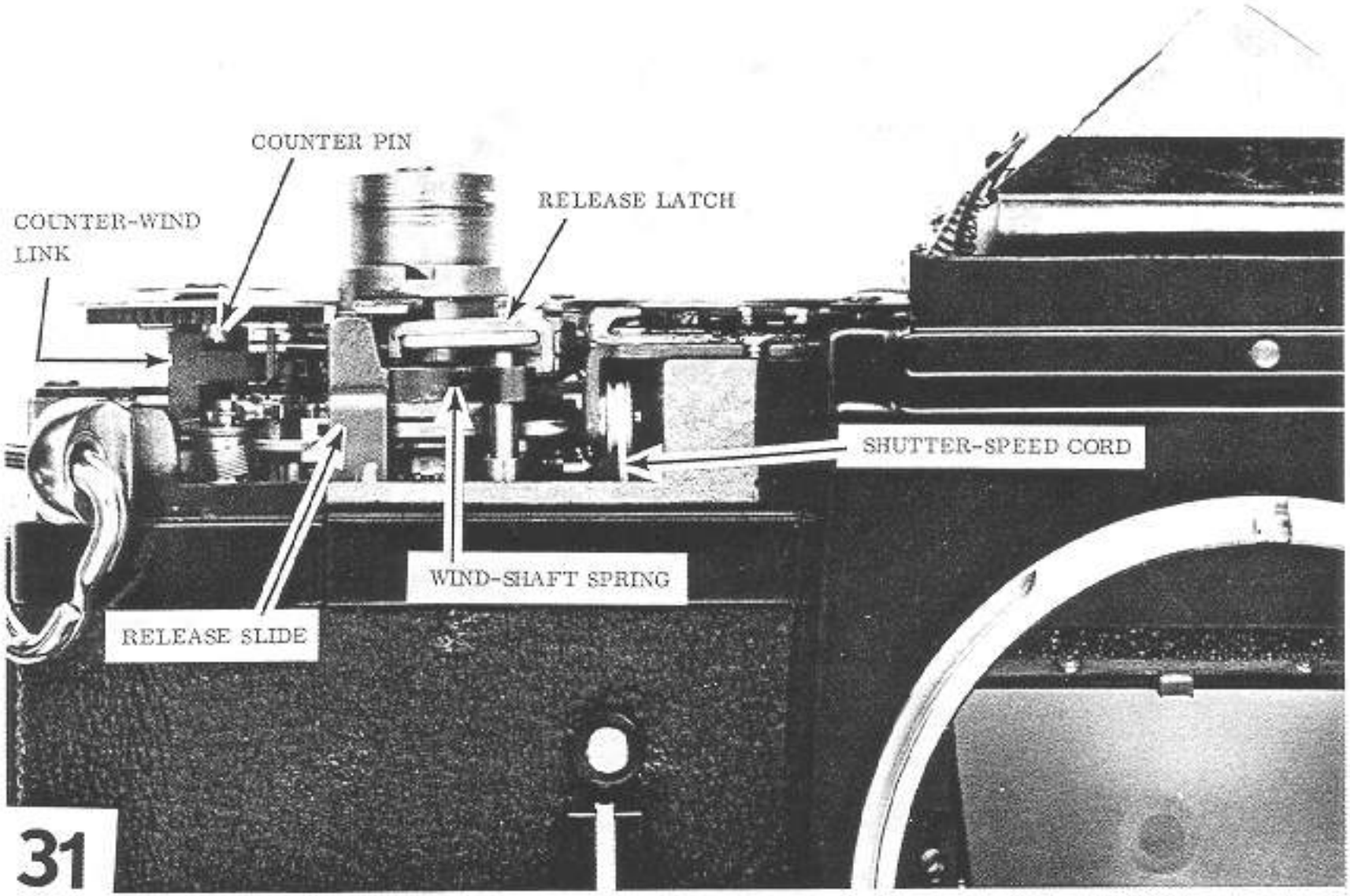
29

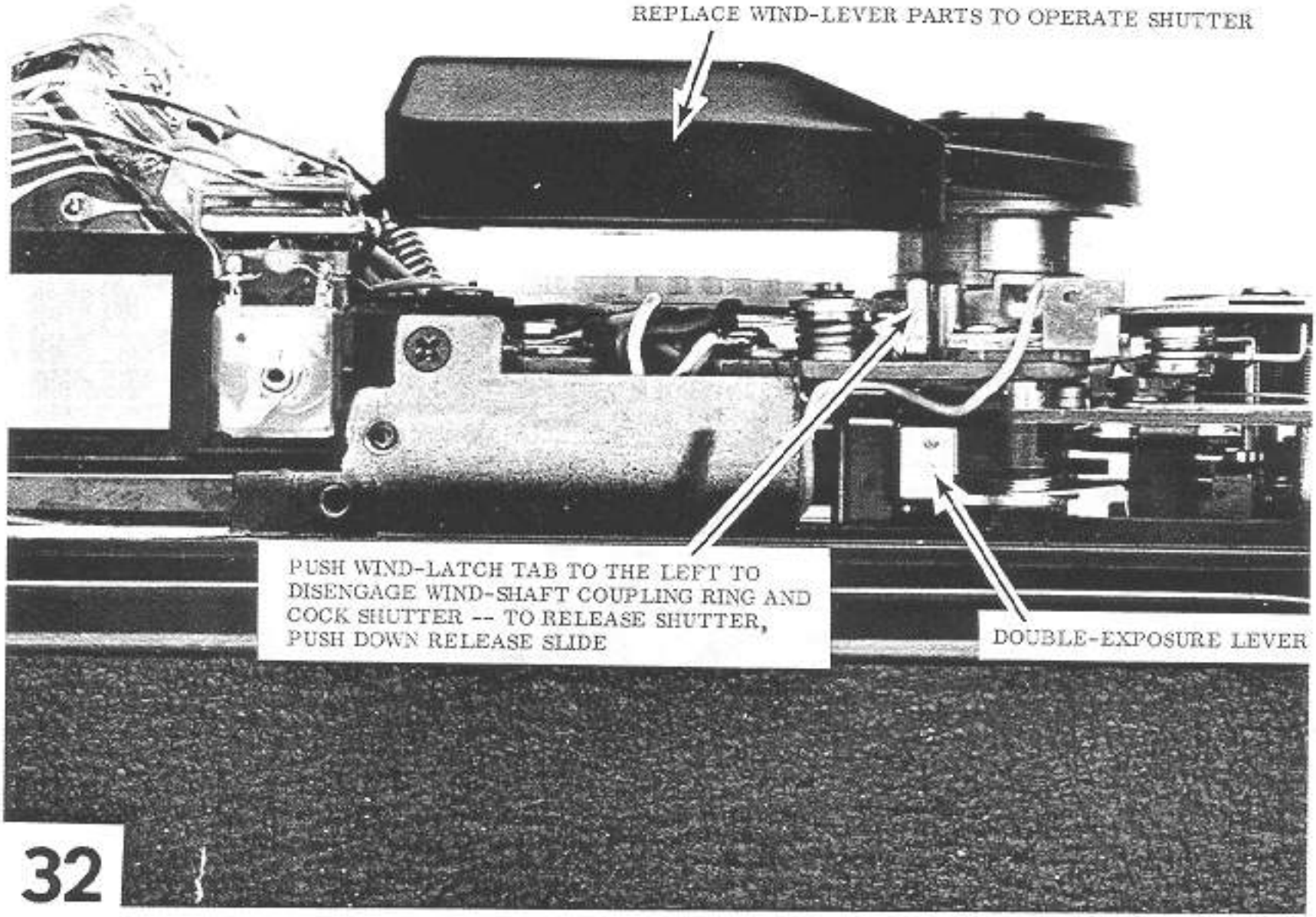
IC1 - Electromagnet switch

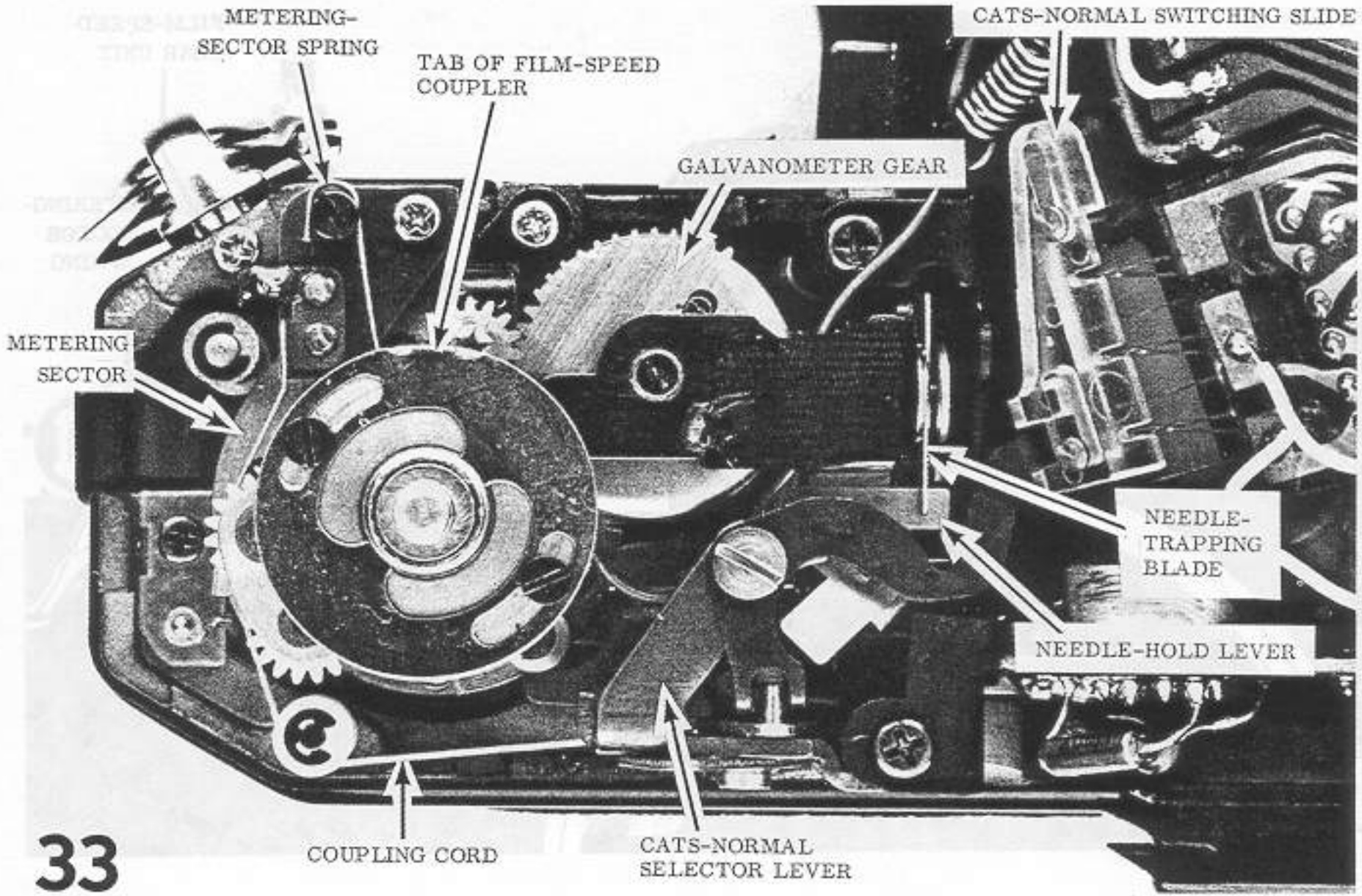
IC2 - transistor amplifier

when faulty - meter drops suddenly down

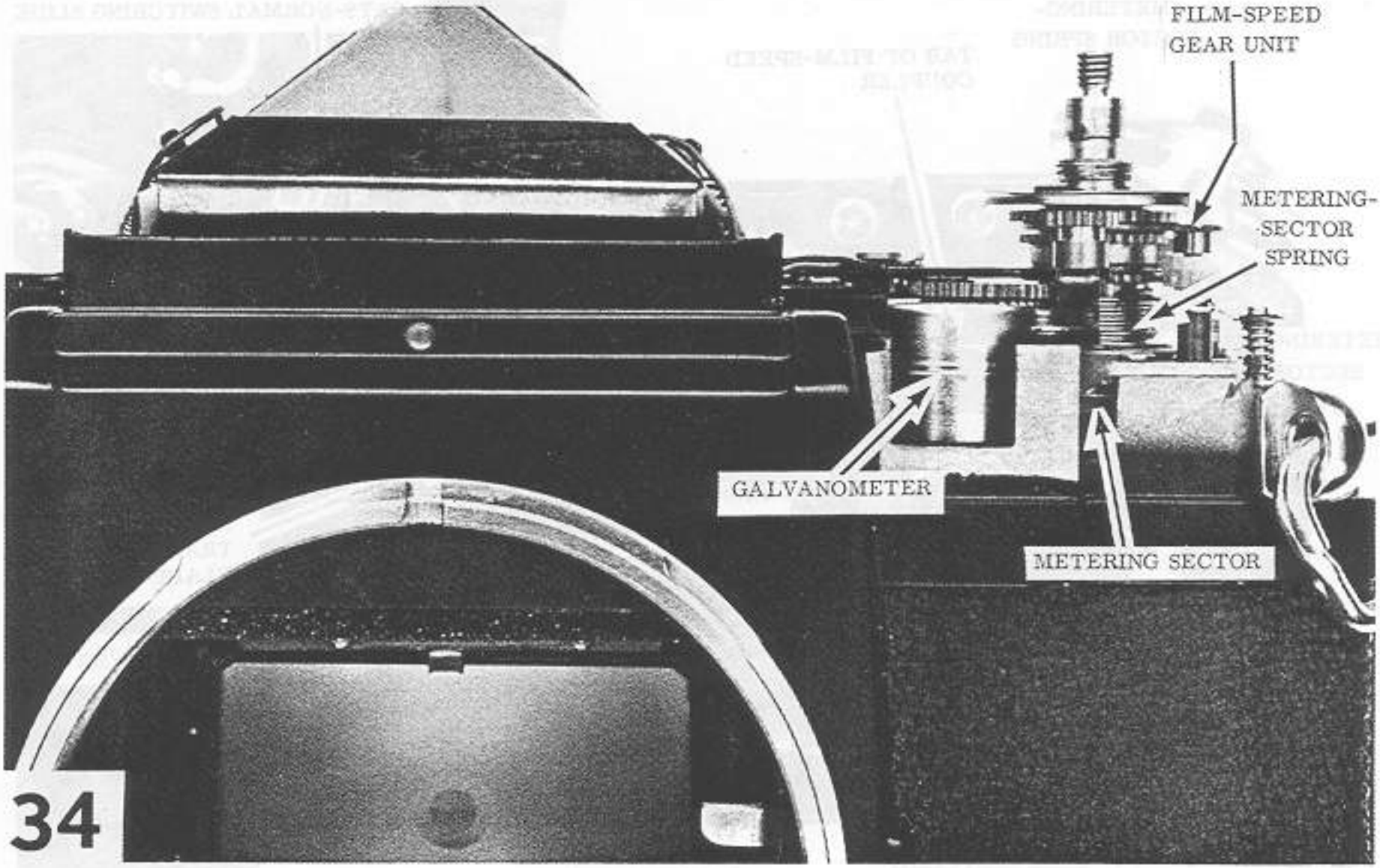

RELEASE LOCK
WIND-SHAFT COUPLING RING
RELEASE ROD
WIND LATCH
WIND-LATCH ECCENTRIC
MOVABLE CONTACT SHOULD TOUCH WIND-LATCH ECCENTRIC
IC1
SPRING LEVER
ON-OFF SWITCH SW1
SPACE BETWEEN SWITCH BLADES SHOULD BE 0.4 - 0.6 mm
SPRING-LEVER ECCENTRIC

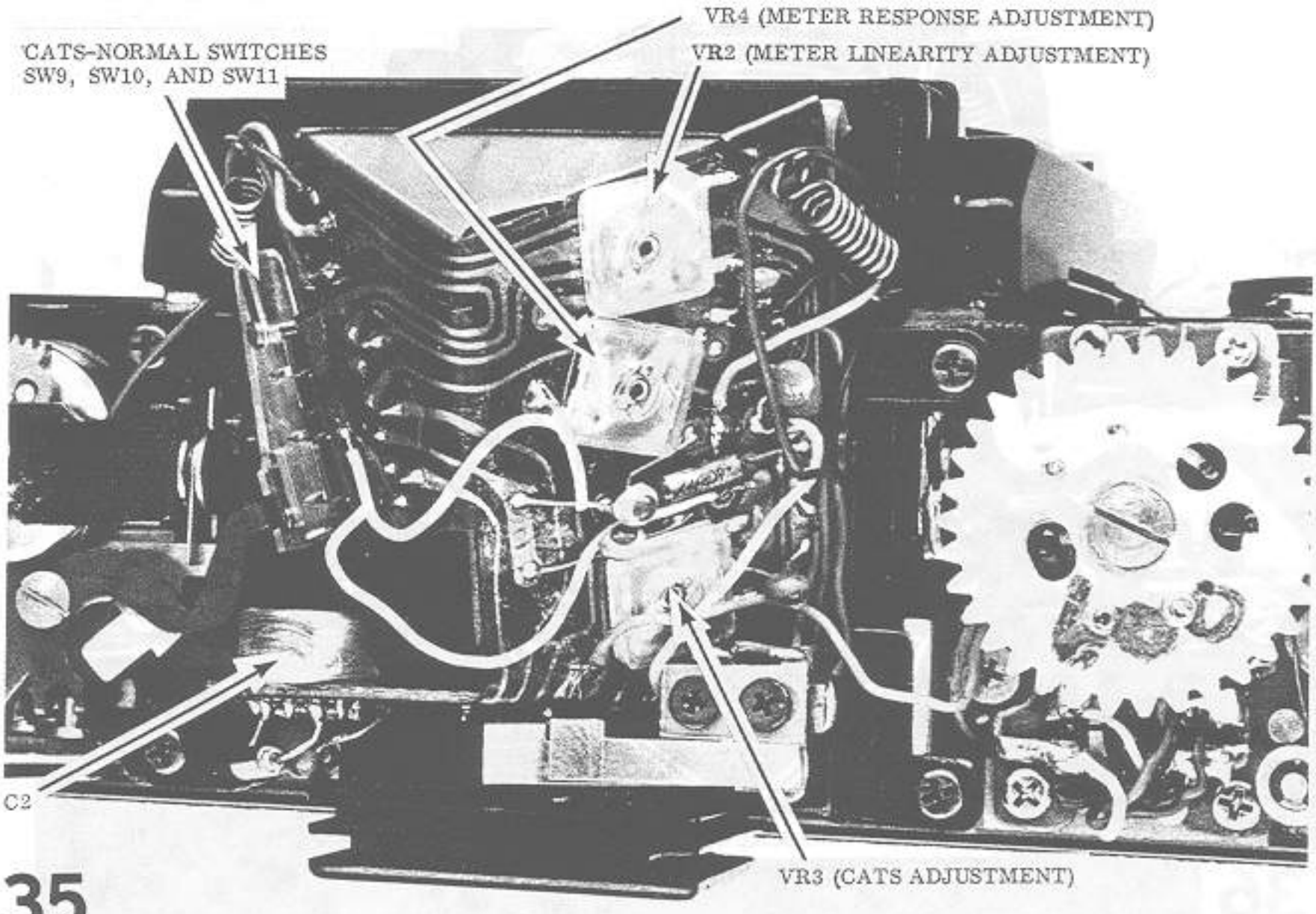

COUNTER PIN
COUNTER-WIND LINK
RELEASE LATCH
SHUTTER-SPEED CORD
WIND-SHAFT SPRING
RELEASE SLIDE

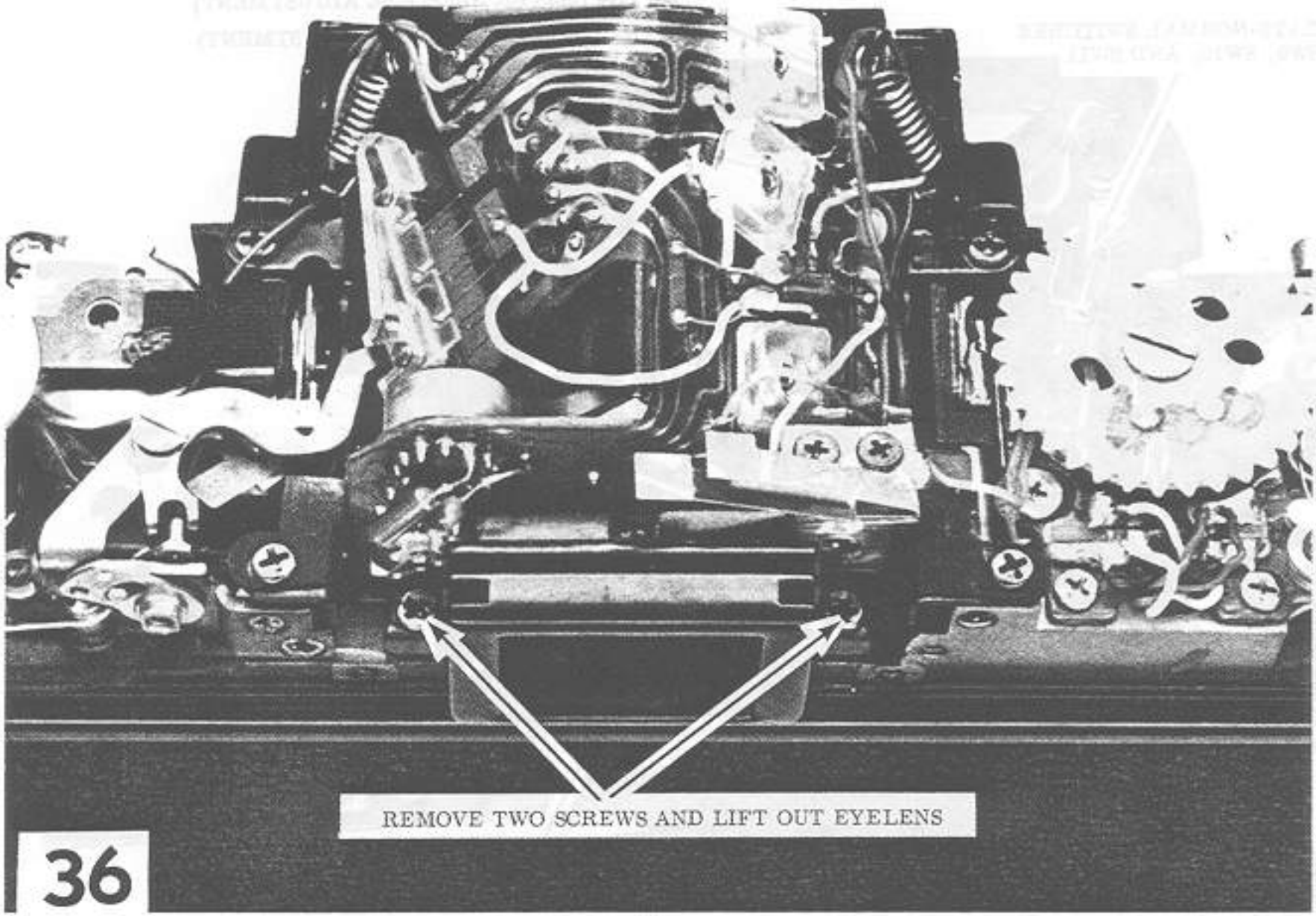

REPLACE WIND-LEVER PARTS TO OPERATE SHUTTER
PUSH WIND-LATCH TAB TO THE LEFT TO DISENGAGE WIND-SHAFT COUPLING RING AND COCK SHUTTER -- TO RELEASE SHUTTER, PUSH DOWN RELEASE SLIDE
DOUBLE-EXPOSURE LEVER


METERING-
SECTOR SPRING
TAB OF FILM-SPEED
COUPLER
CATS-NORMAL SWITCHING SLIDE
GALVANOMETER GEAR
METERING
SECTOR
NEEDLE-
TRAPPING
BLADE
NEEDLE-HOLD LEVER
COUPLING CORD
CATS-NORMAL
SELECTOR LEVER

33


FILM-SPEED
GEAR UNIT
METERING-
SECTOR
SPRING
GALVANOMETER
METERING SECTOR


CATS-NORMAL SWITCHES
SW9, SW10, AND SW11
VR4 (METER RESPONSE ADJUSTMENT)
VR2 (METER LINEARITY ADJUSTMENT)
C2
VR3 (CATS ADJUSTMENT)



REMOVE TWO SCREWS AND LIFT OUT EYELENS

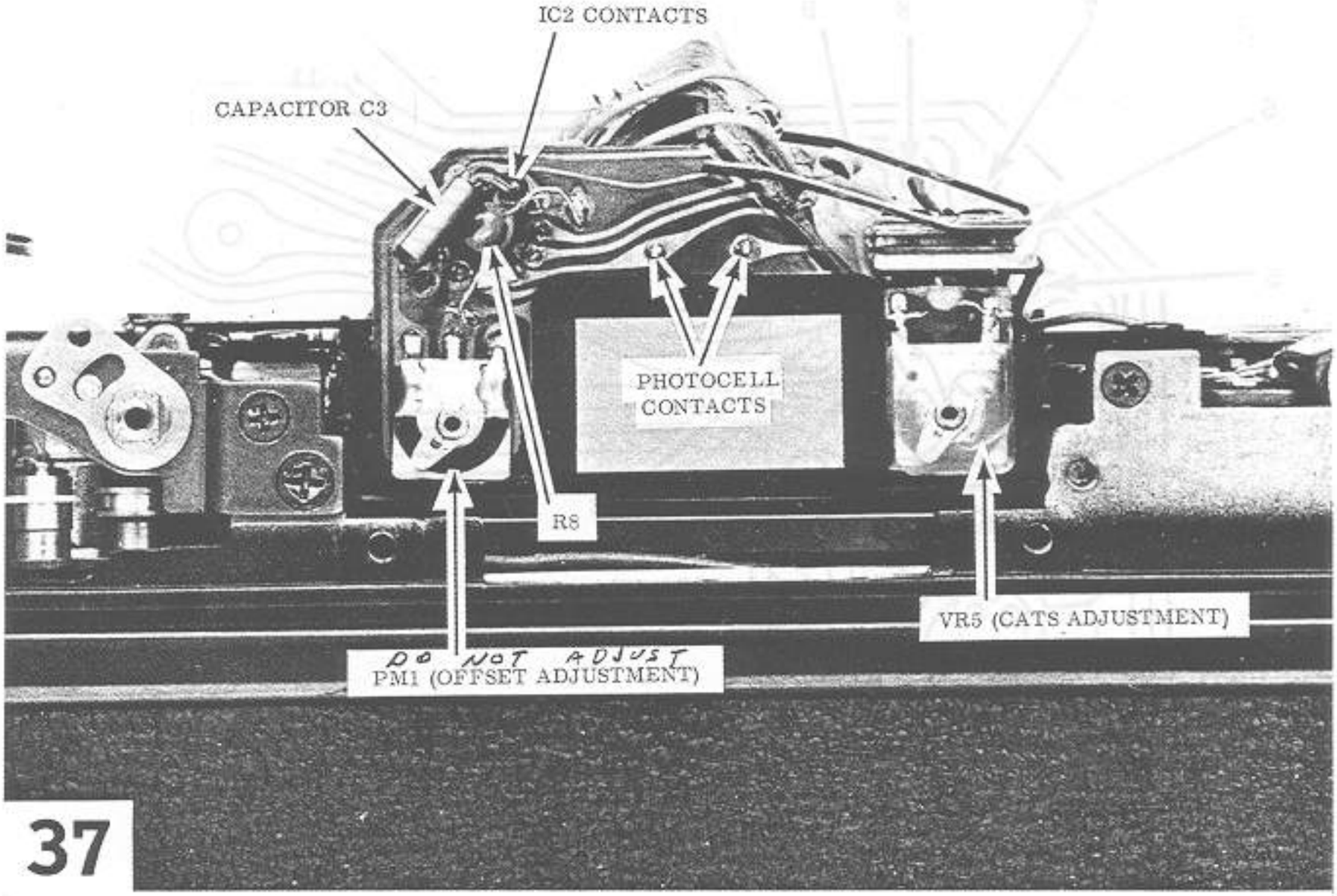
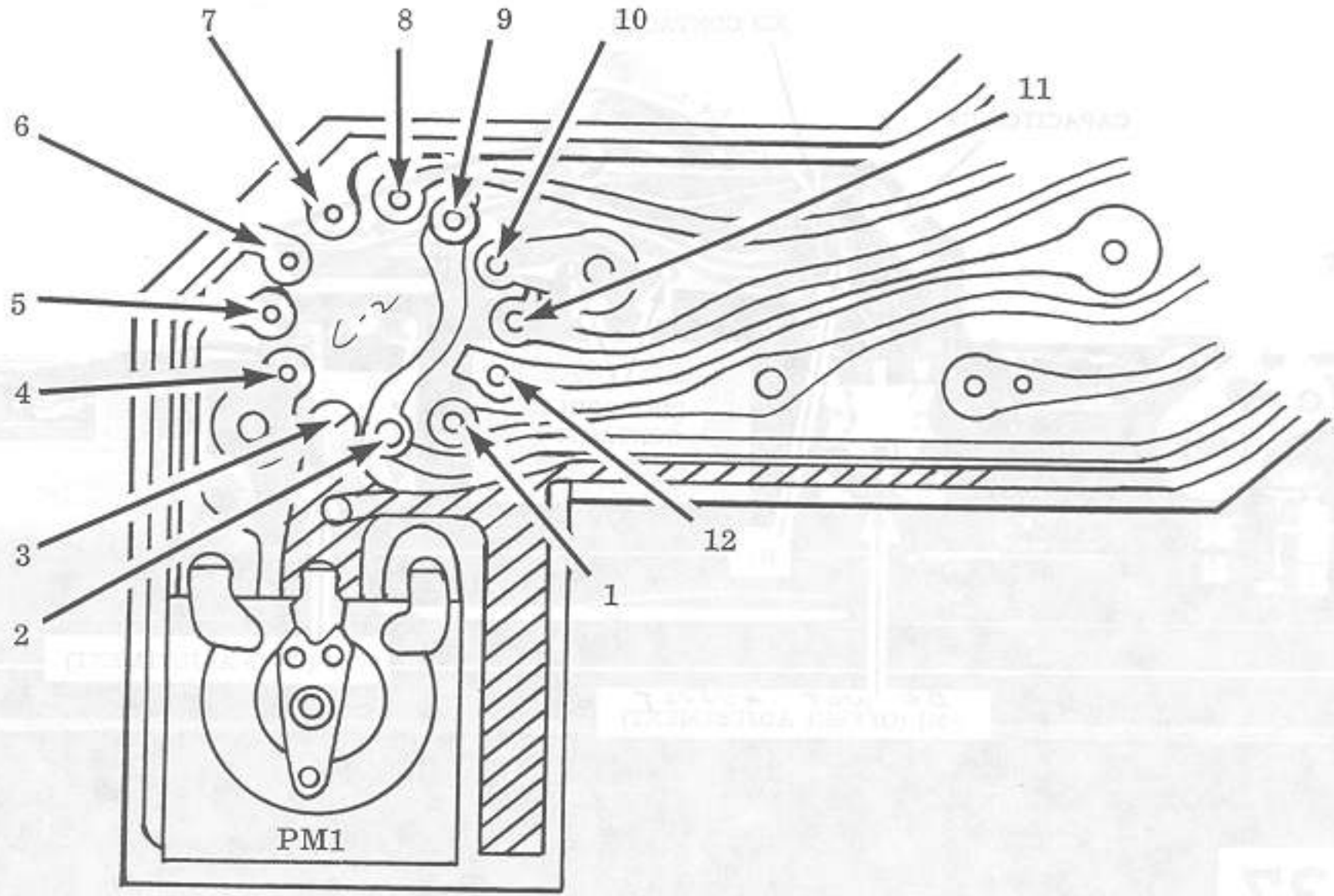
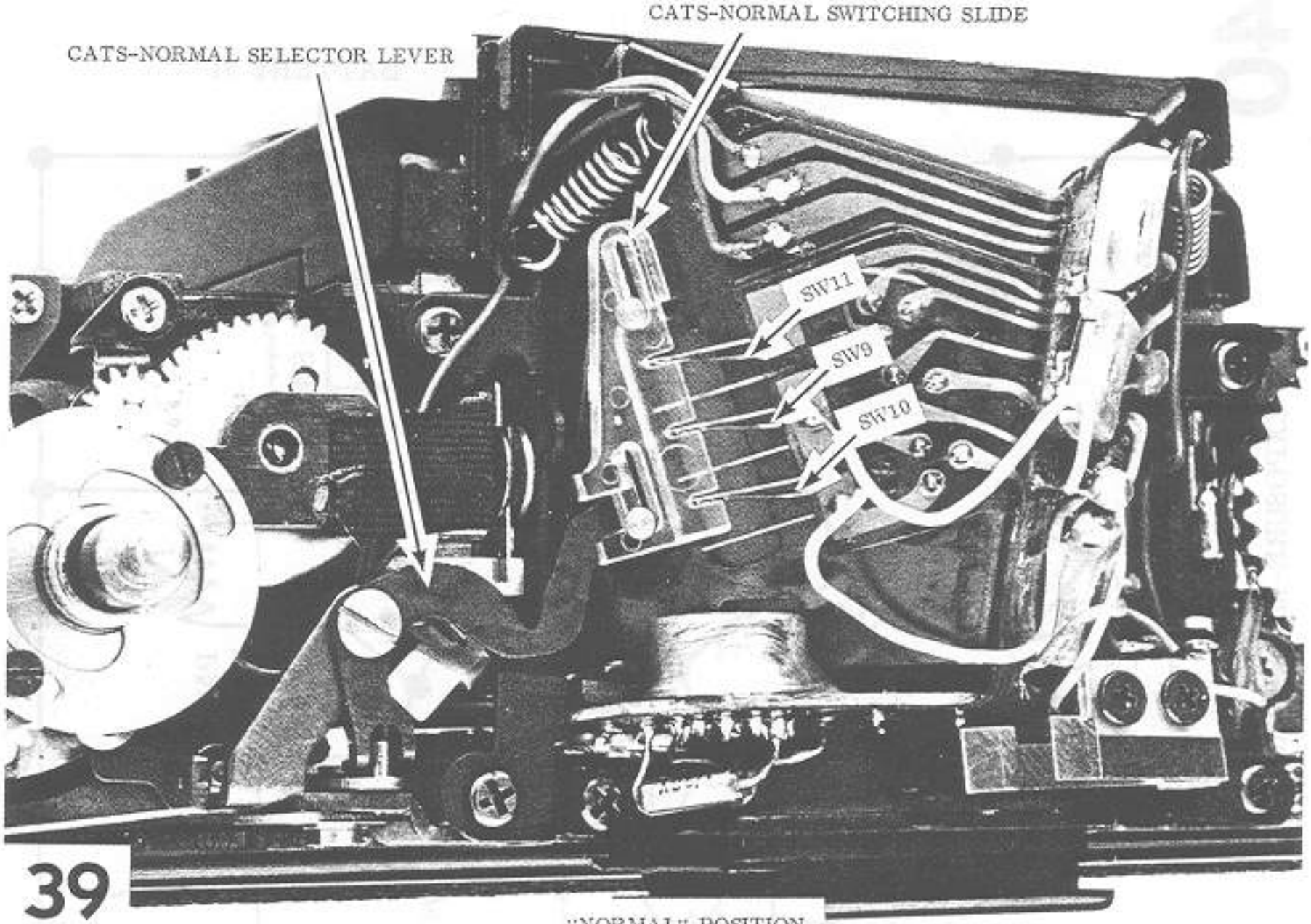

IC2 CONTACTS
CAPACITOR C3
PHOTOCELL CONTACTS
R8
VR5 (CATS ADJUSTMENT)
DO NOT ADJUST
PM1 (OFFSET ADJUSTMENT)

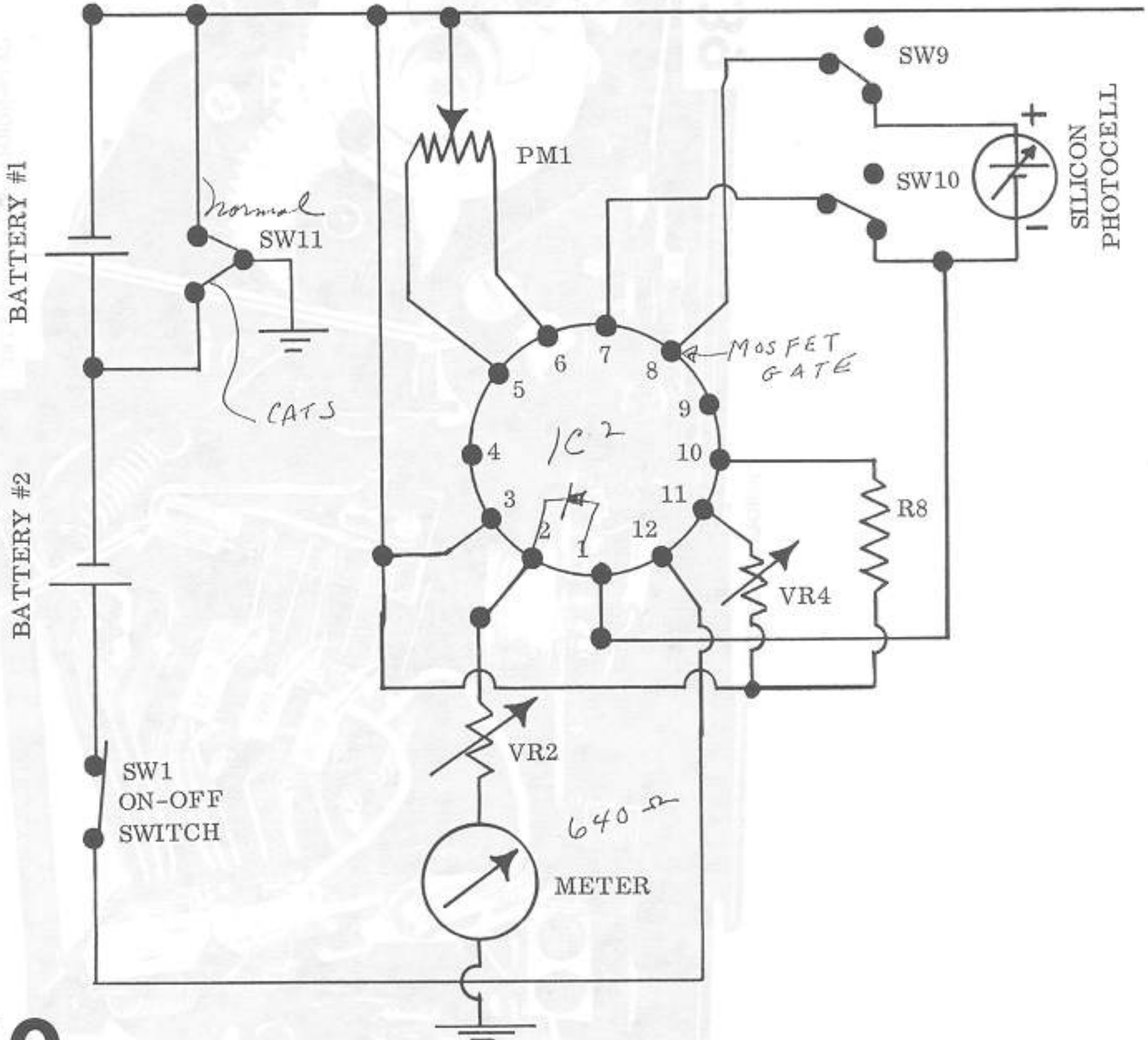
Photo cells


7
8
9
10
11
6
5
4
3
2
1
12
PM1

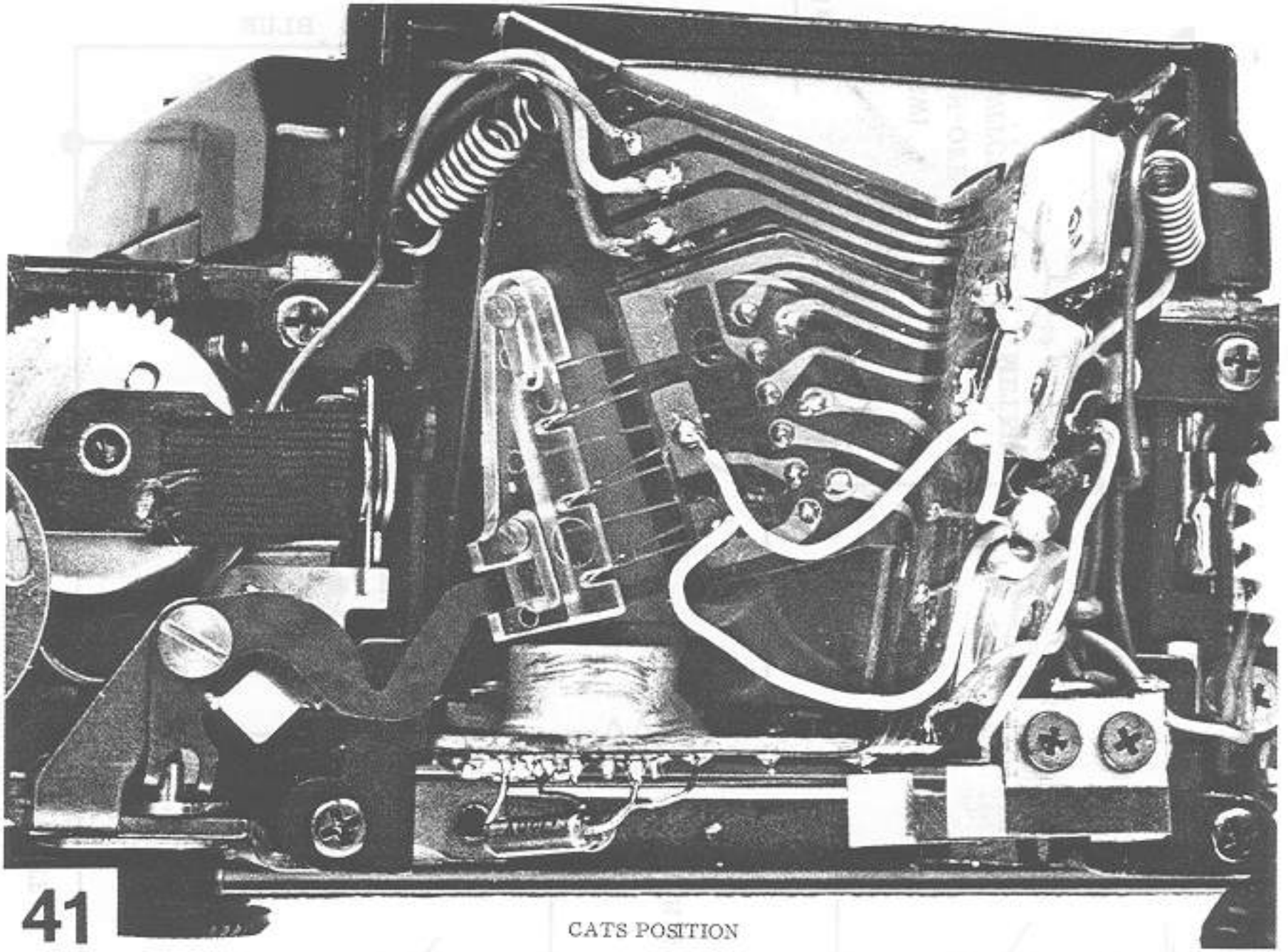


39

"NORMAL" POSITION



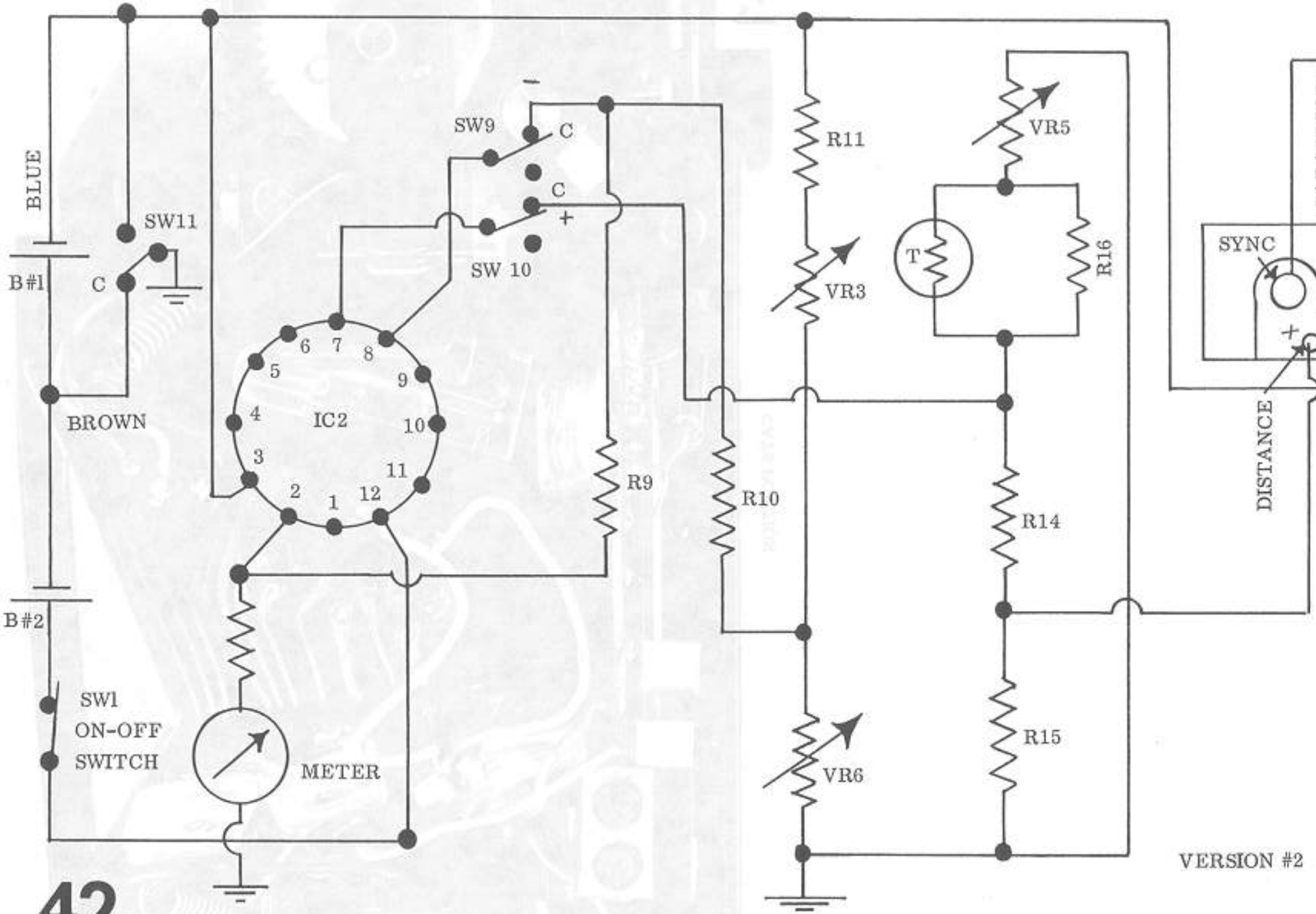
EXPOSURE-METER CIRCUIT



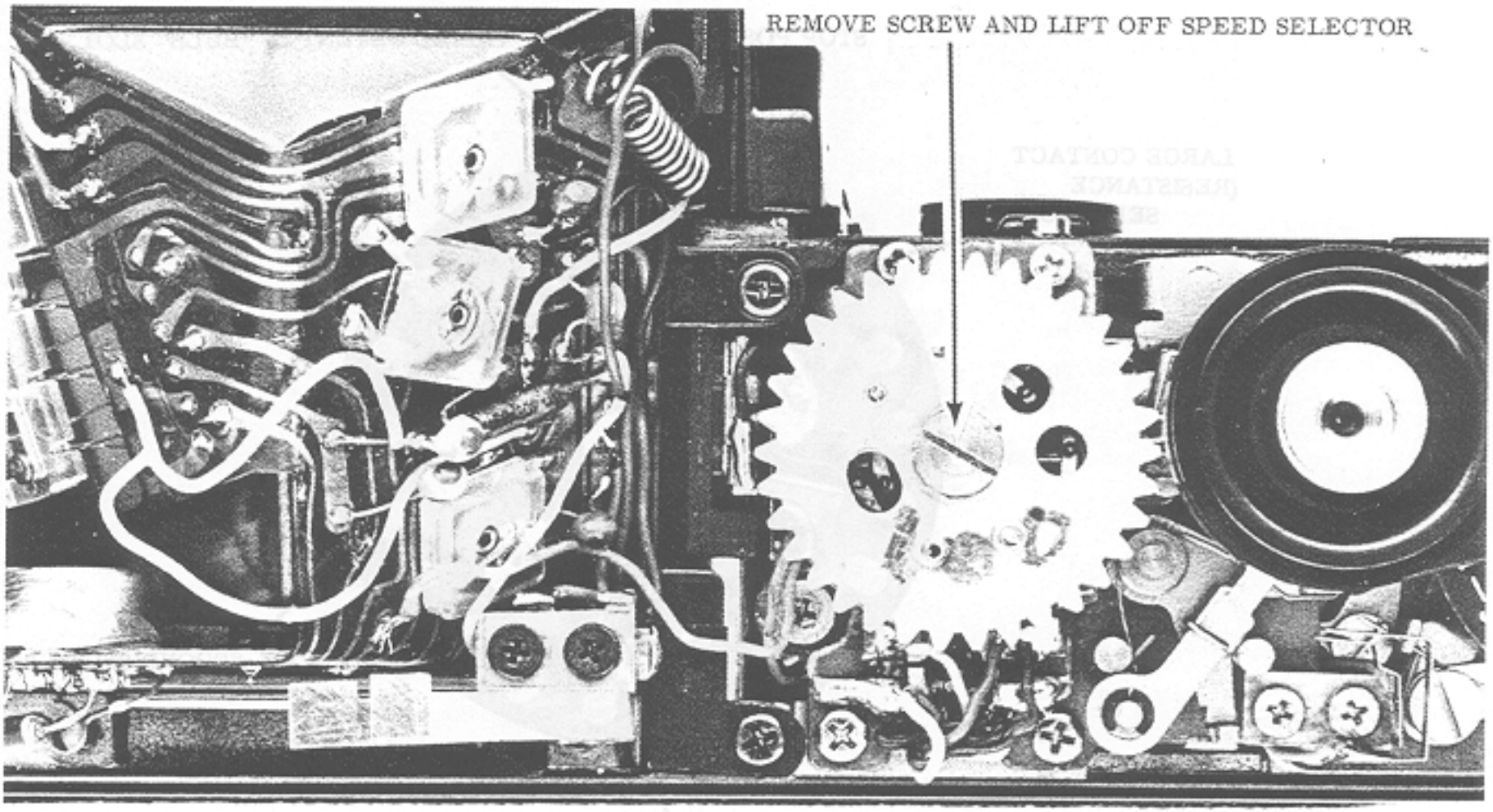
41

CATS POSITION

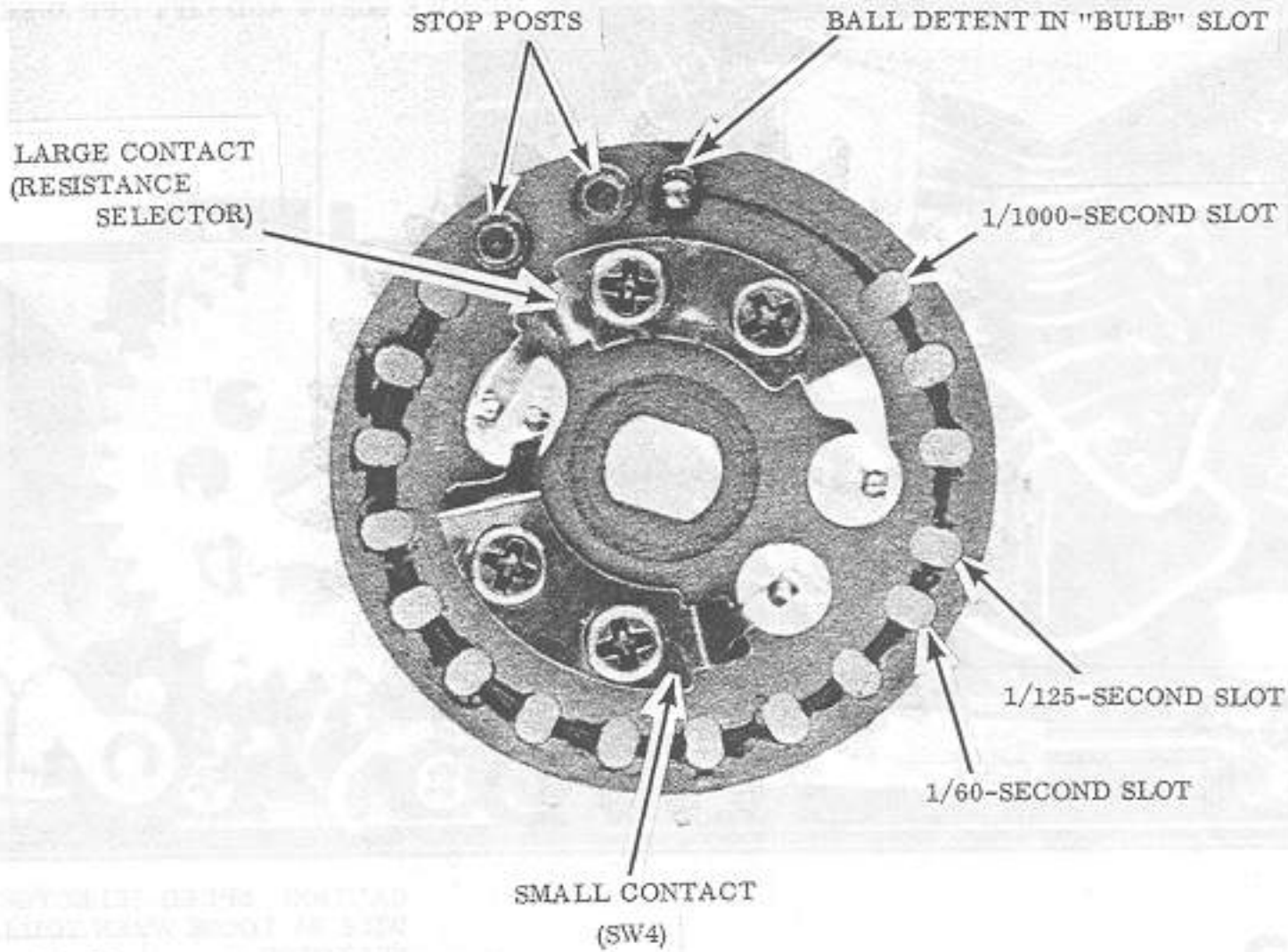
CATS CIRCUIT



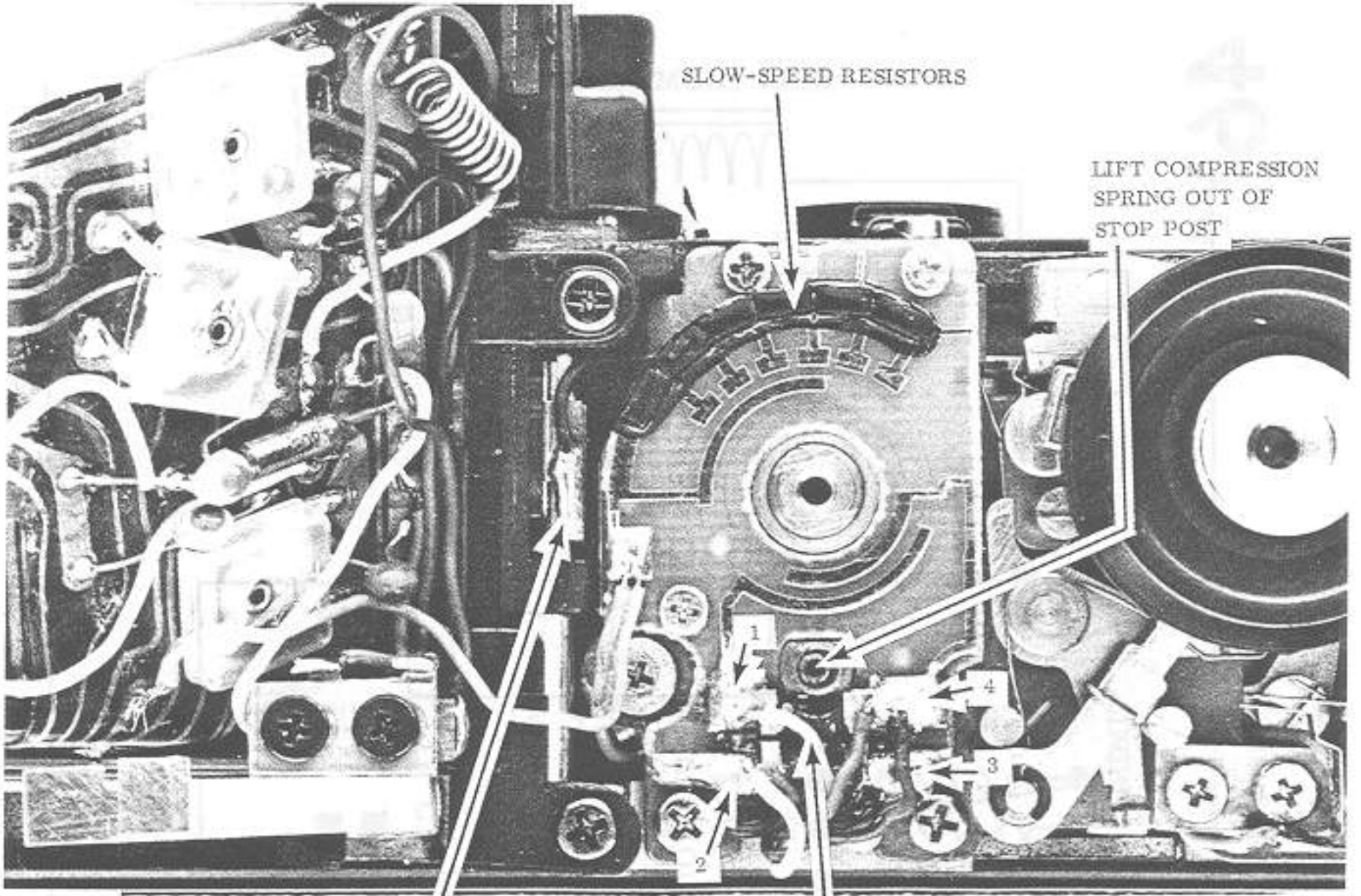
VERSION #2

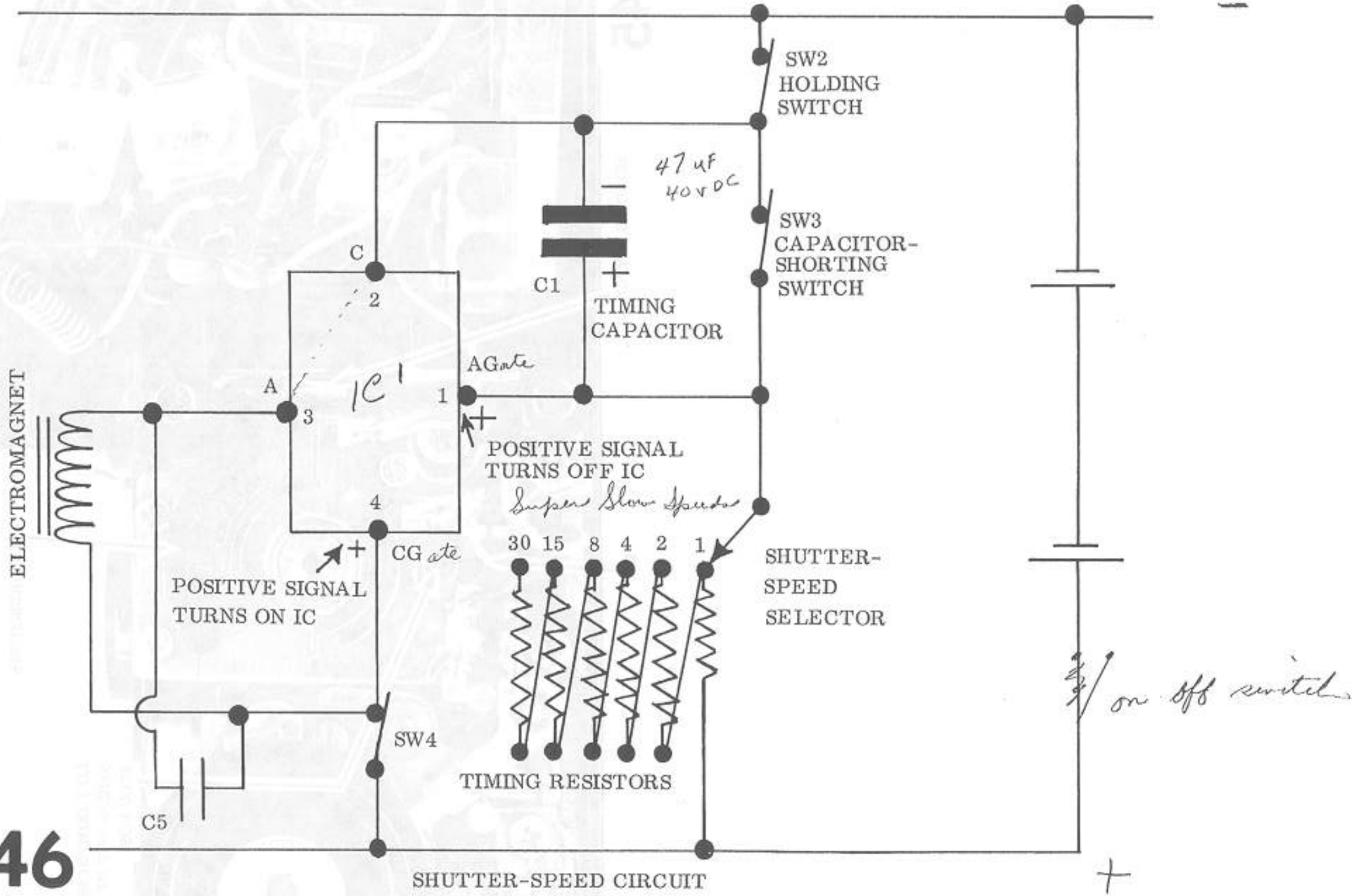


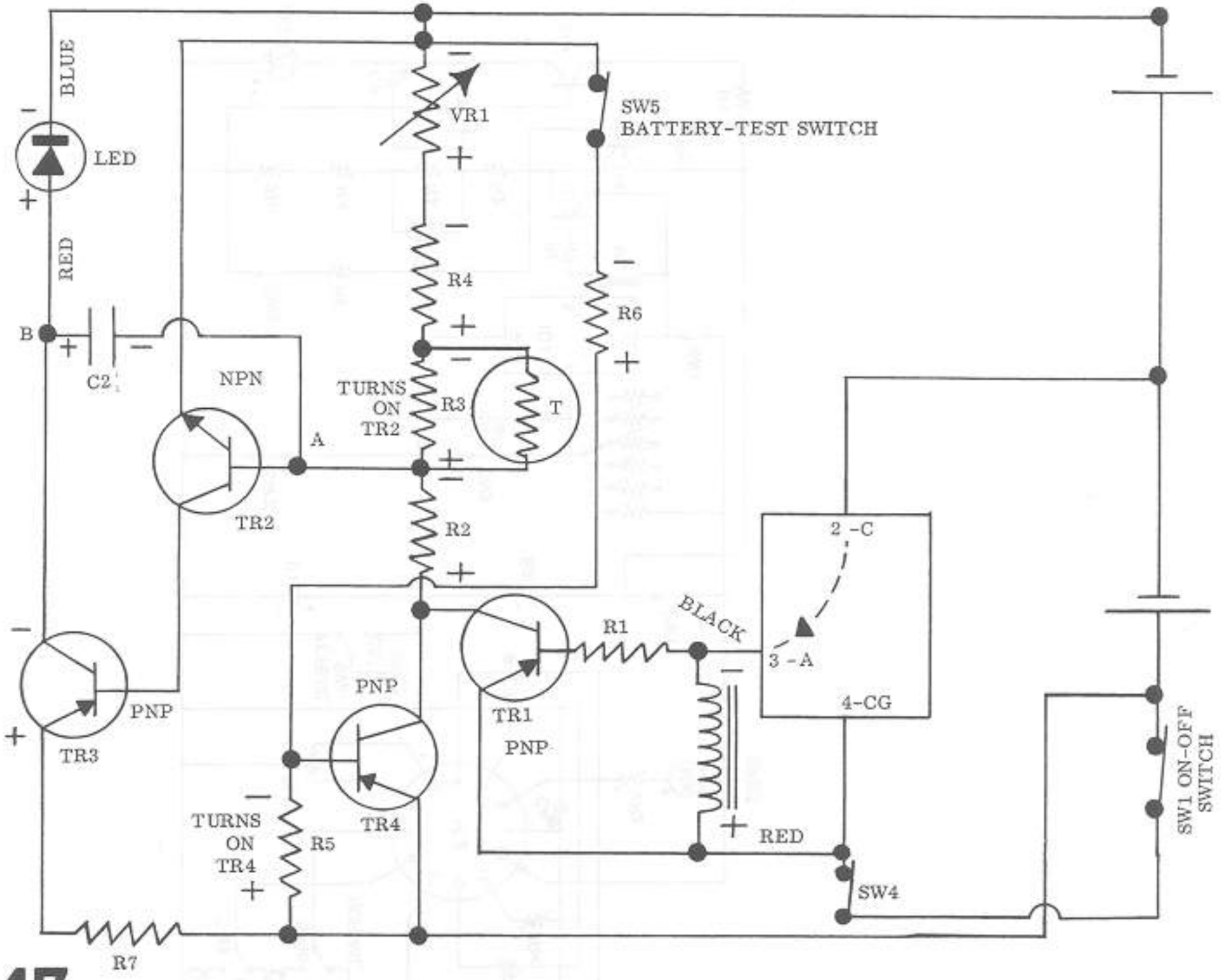
CAUTION: SPEED-SELECTOR BALL DETENT WILL BE LOOSE WHEN YOU LIFT OFF SPEED SELECTOR

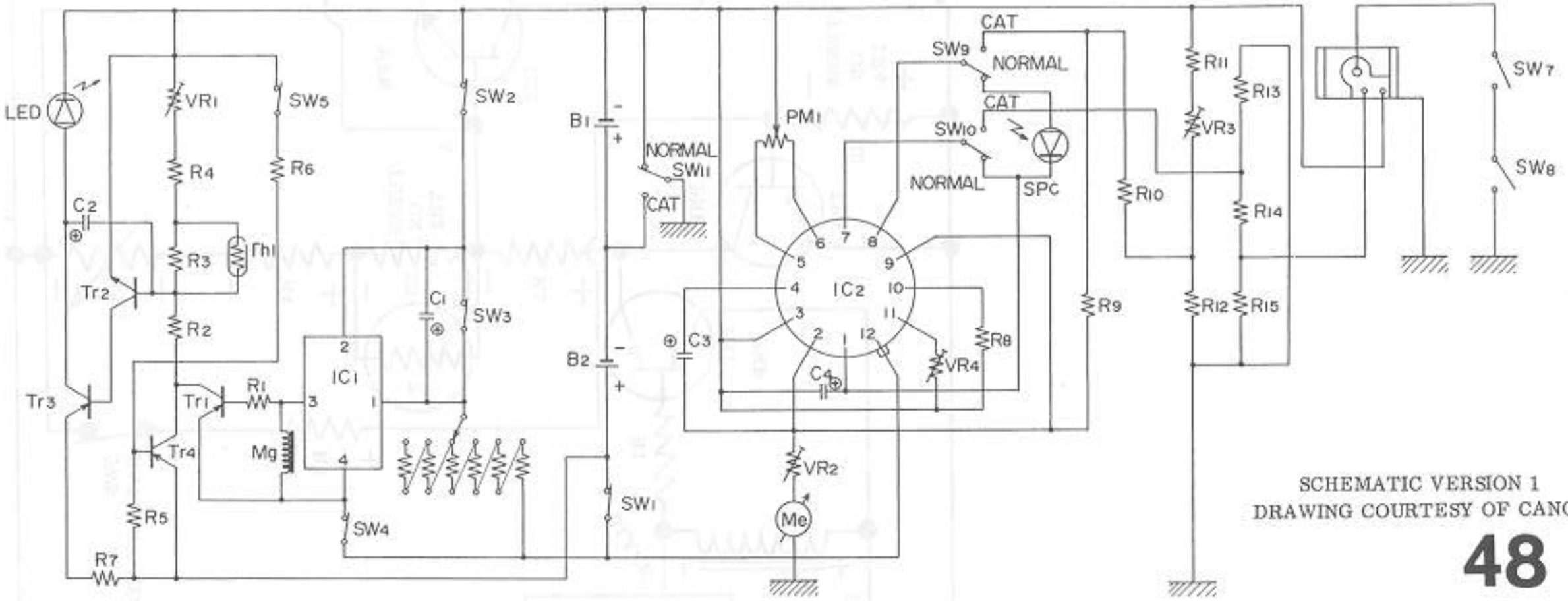


44 UNDERSIDE OF SPEED SELECTOR

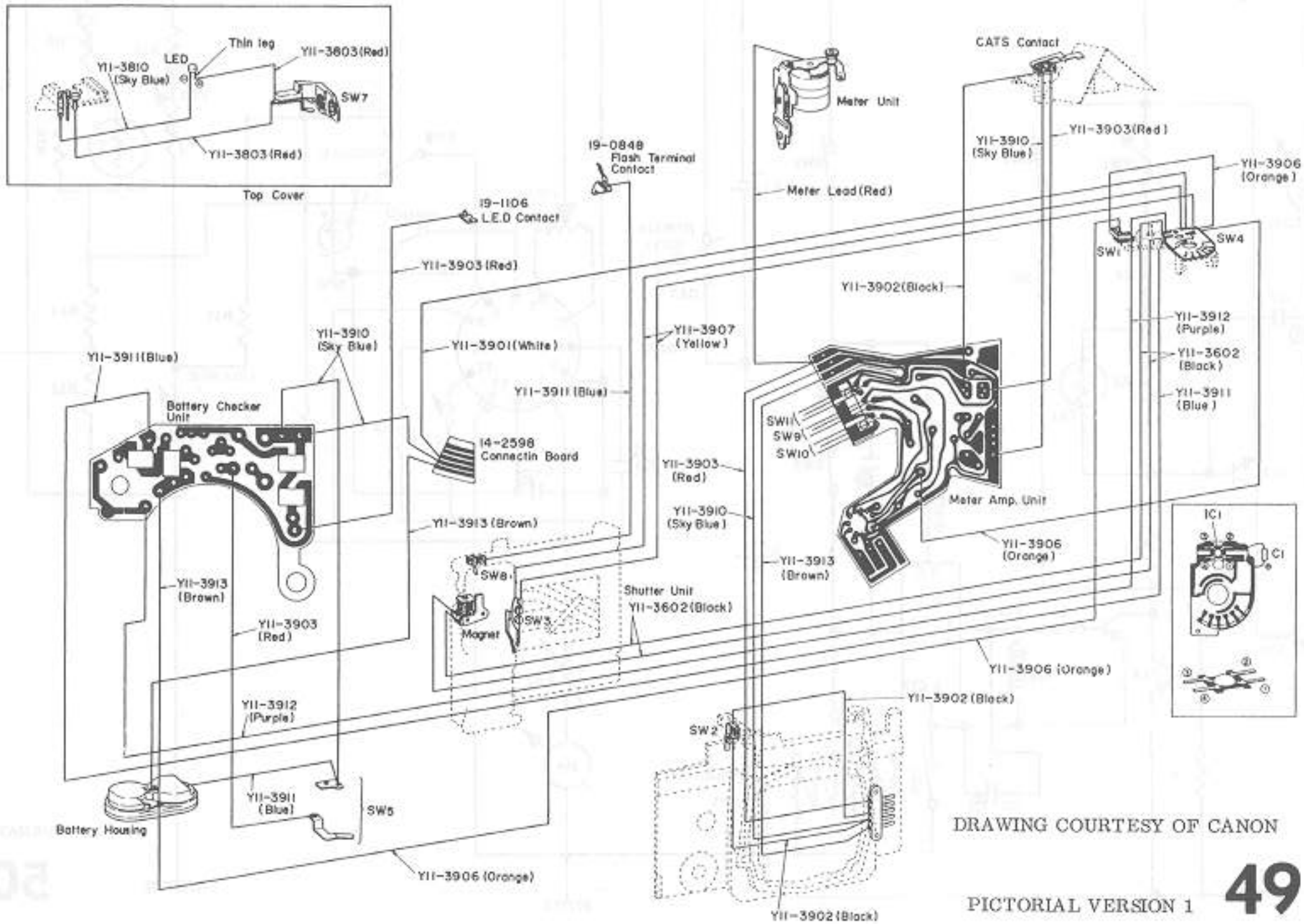

SLOW-SPEED RESISTORS
LIFT COMPRESSION SPRING OUT OF STOP POST
1
2
3
4
HOLDING SWITCH SW2
IC1


SW2
HOLDING
SWITCH
47 uF
40 v DC
SW3
CAPACITOR-
SHORTING
SWITCH
C
2
C1
TIMING
CAPACITOR
A
3
IC 1
AGate
1
POSITIVE SIGNAL
TURNS OFF IC
Super Slow Speeds
4
CG ate
POSITIVE SIGNAL
TURNS ON IC
30 15 8 4 2 1
SHUTTER-
SPEED
SELECTOR
SW4
TIMING RESISTORS
C5
SHUTTER-SPEED CIRCUIT
+
+
+
ELECTROMAGNET
1/ on off switch

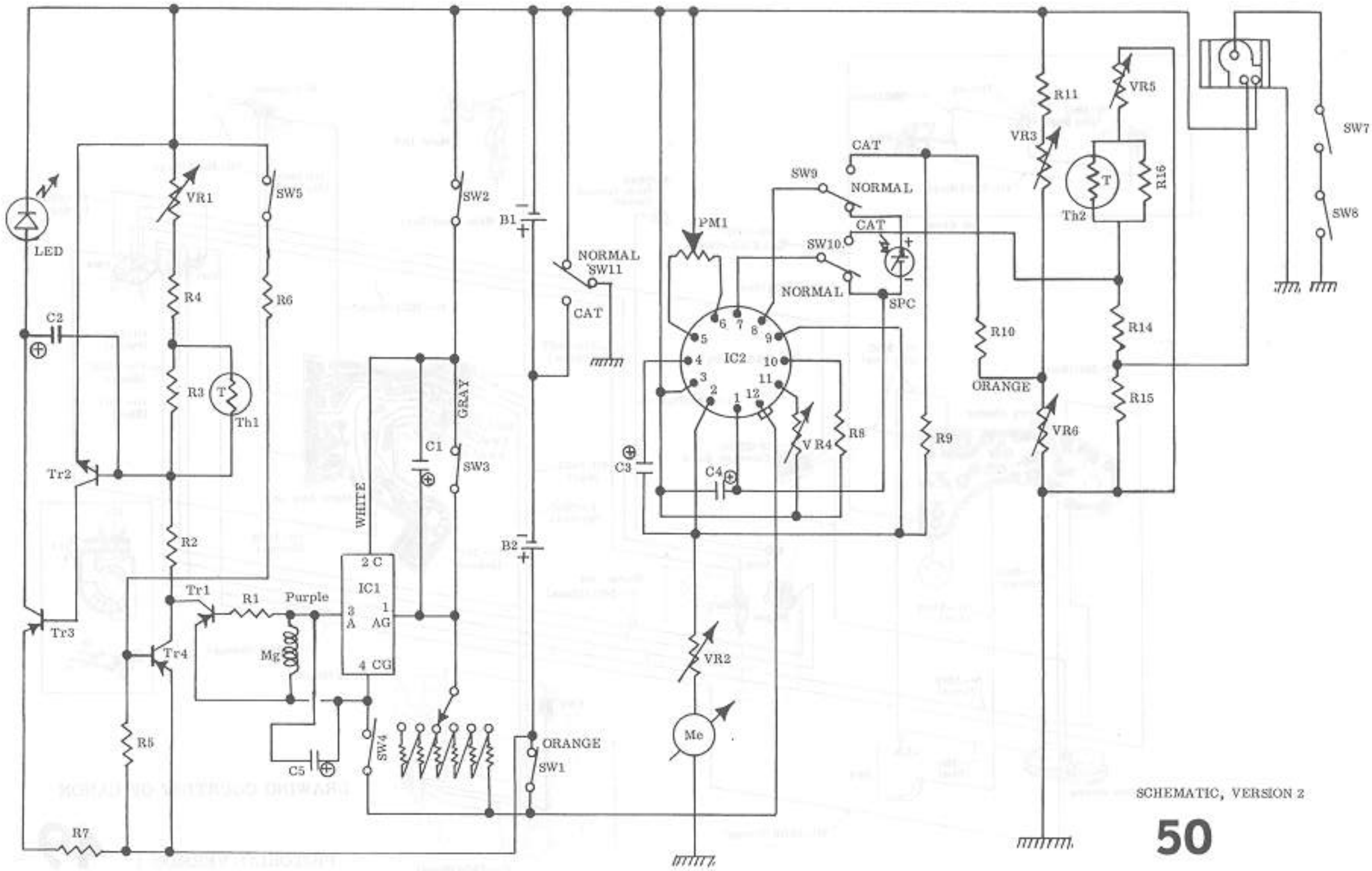

BLUE
LED
RED
B
C2
NPN
TR2
A
VR1
SW5
BATTERY-TEST SWITCH
R4
R6
TURNS
ON
TR2
R3
T
R2
TR3
PNP
PNP
TR4
TURNS
ON
TR4
R5
R7
TR1
PNP
R1
BLACK
2 -C
3 -A
4-CG
RED
SW4
SW1 ON-OFF
SWITCH



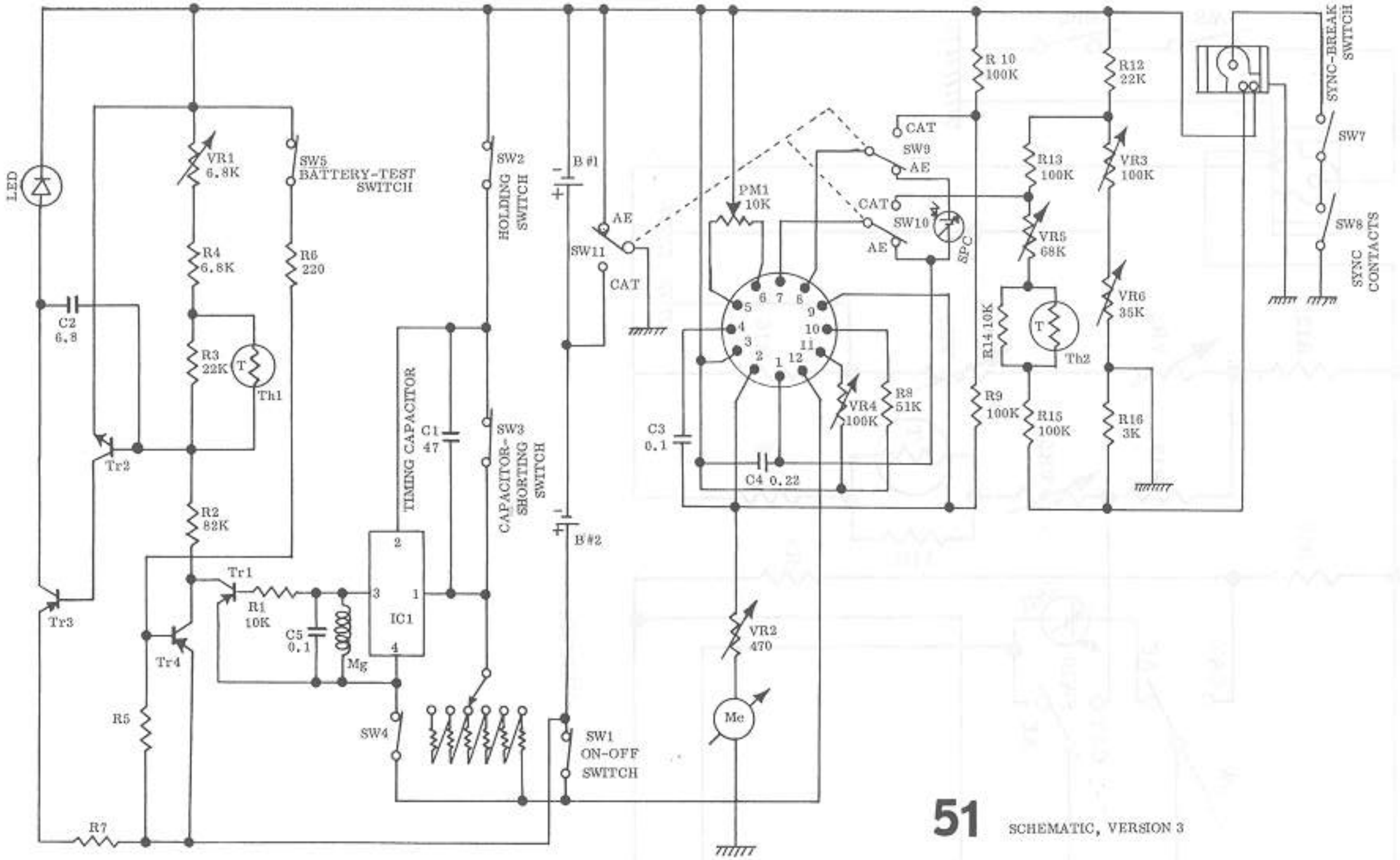
SCHEMATIC VERSION 1
DRAWING COURTESY OF CANON

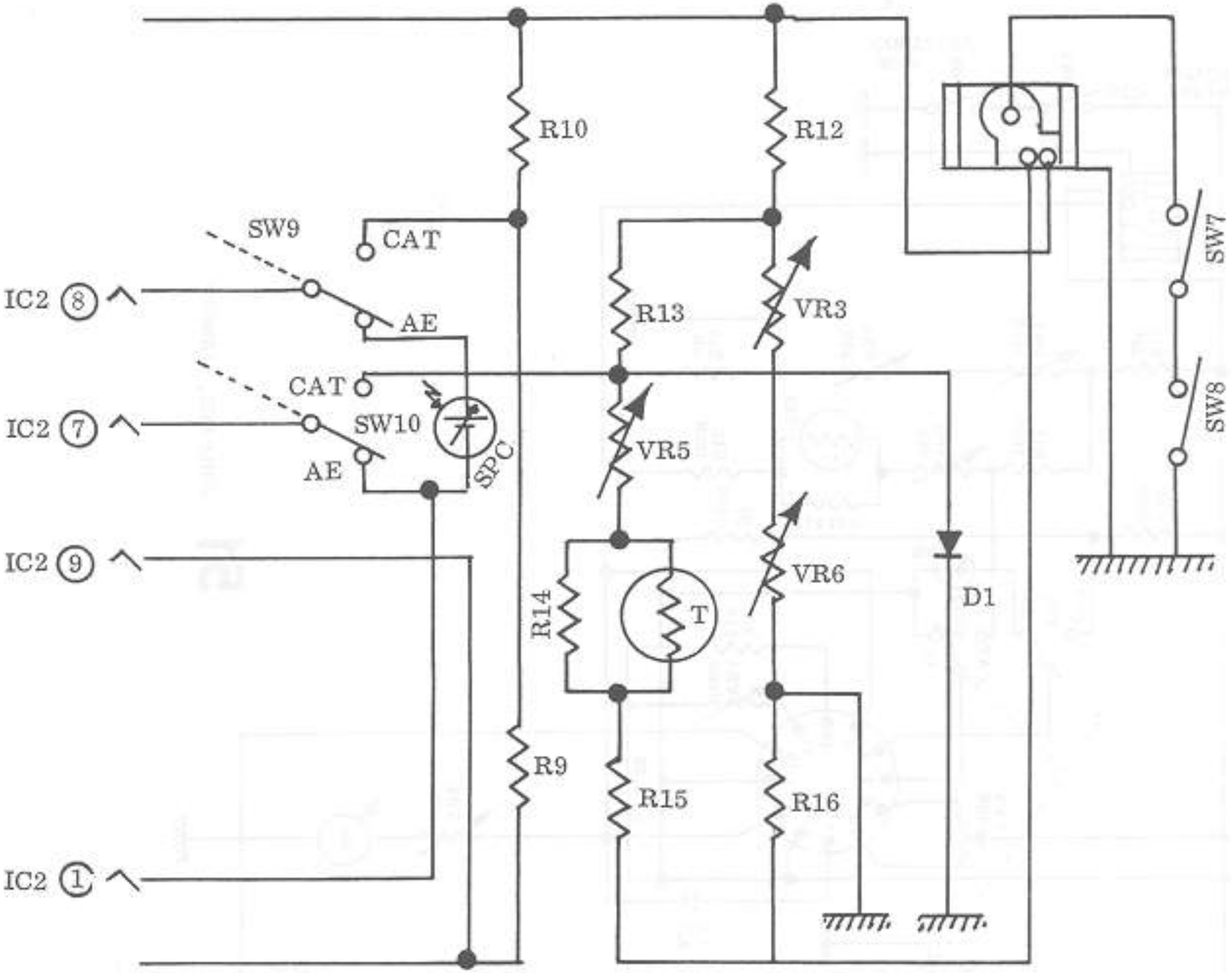


DRAWING COURTESY OF CANON



SCHEMATIC, VERSION 2

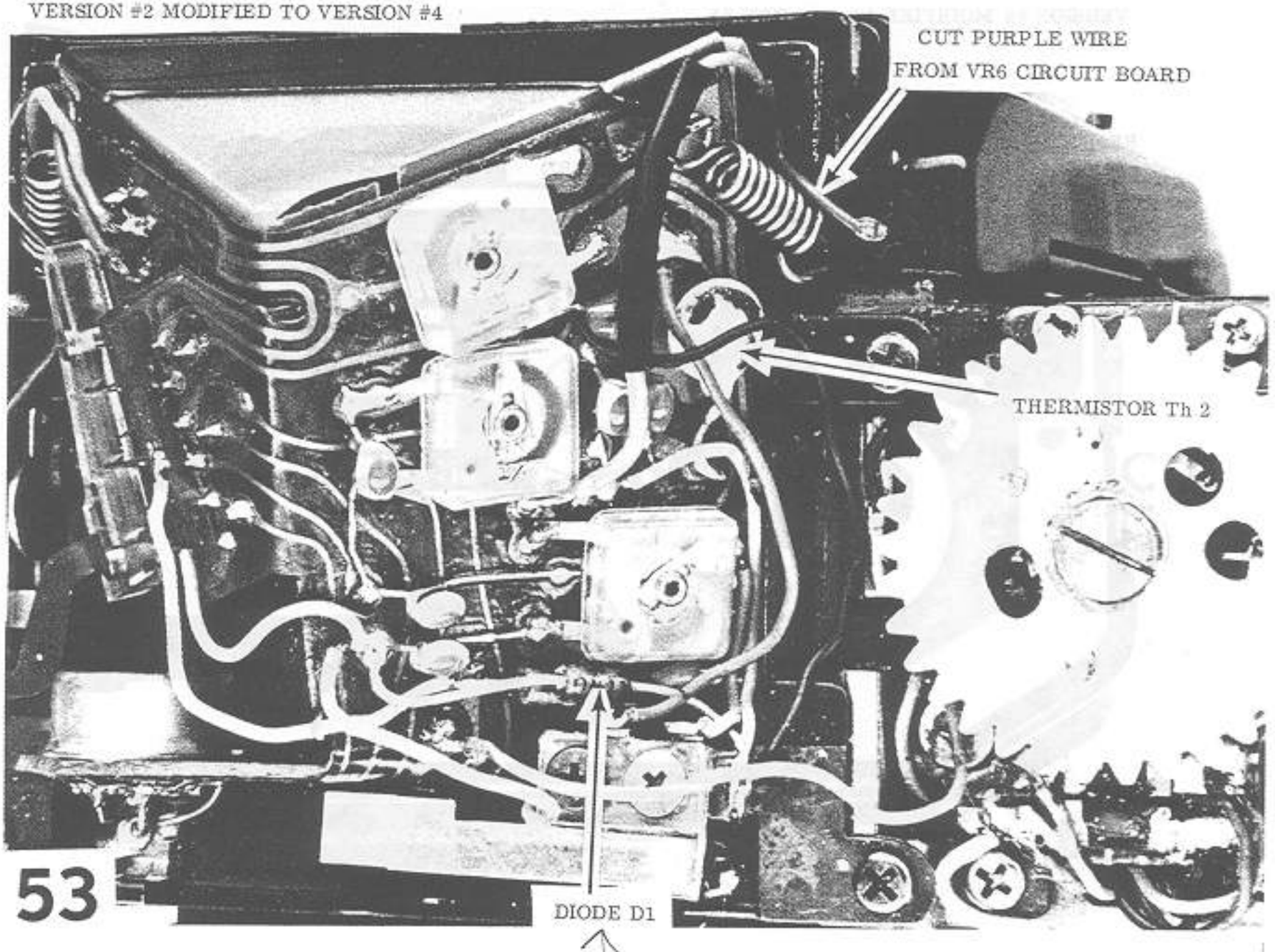

LED
VR1
6.8K
SW5
BATTERY-TEST
SWITCH
R4
6.8K
R6
220
C2
6.8
R3
22K
T
Th1
Tr2
R2
82K
Tr1
Tr3
R1
10K
C5
0.1
Mg
Tr4
R5
R7
SW2
HOLDING
SWITCH
TIMING CAPACITOR
C1
47
SW3
CAPACITOR-
SHORTING
SWITCH
IC1
B #1
B #2
AE
SW11
CAT
PM1
10K
CAT
SW9
AE
CAT
SW10
AE
SPC
C3
0.1
C4 0.22
VR4
100K
R8
51K
R 10
100K
R9
100K
R13
100K
VR5
68K
R14 10K
T
Th2
R15
100K
R12
22K
VR3
100K
VR6
35K
R16
3K
SYNC-BREAK
SWITCH
SW7
SW8
SYNC
CONTACTS
VR2
470
Me
SW4
SW1
ON-OFF
SWITCH


R10
R12
SW9
CAT
IC2 ⑧
AE
R13
VR3
SW7
CAT
IC2 ⑦
SW10
SPC
AE
VR5
SW8
IC2 ⑨
R14
T
VR6
D1
R9
R15
R16
IC2 ①

52

VERSION 4

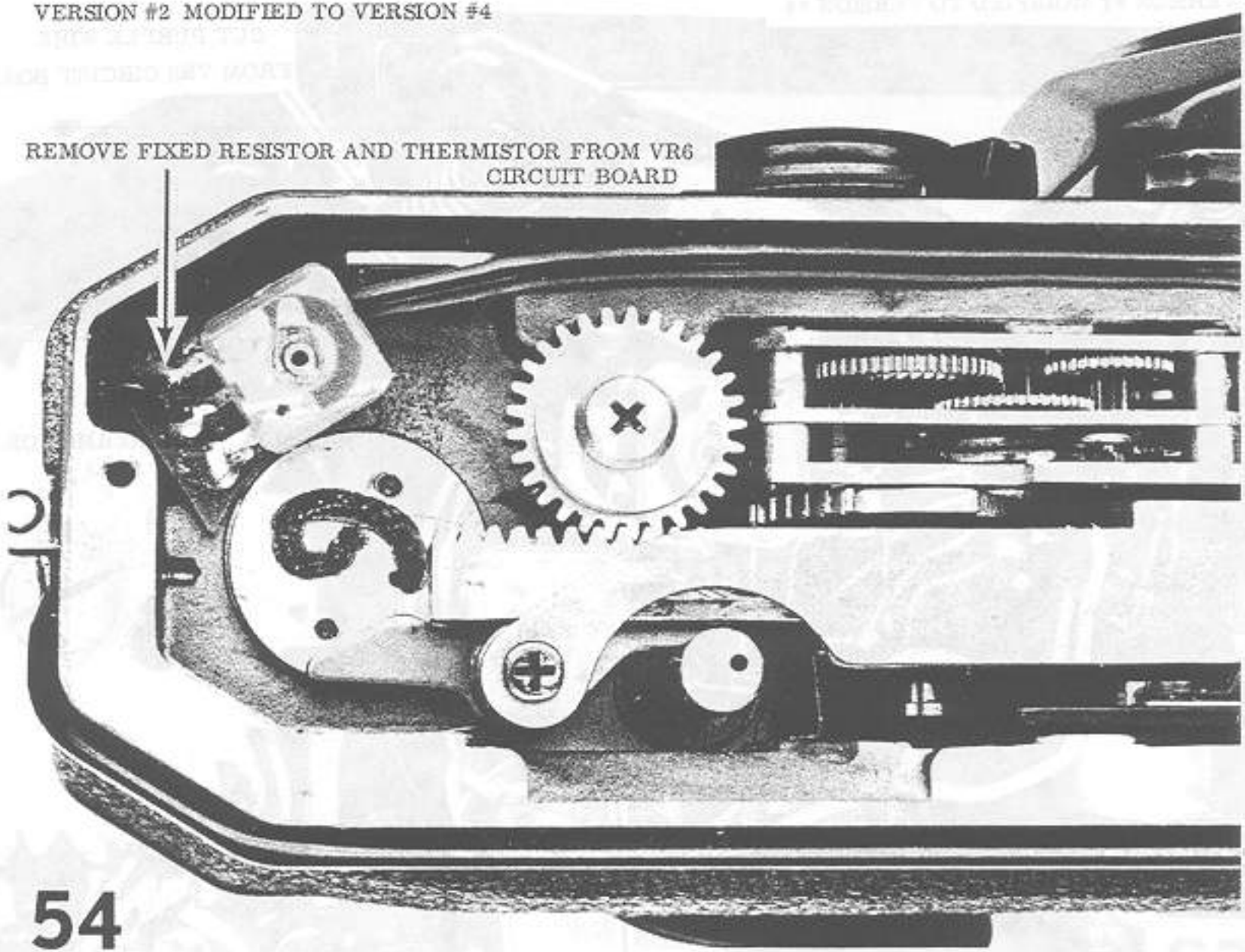
VERSION #2 MODIFIED TO VERSION #4



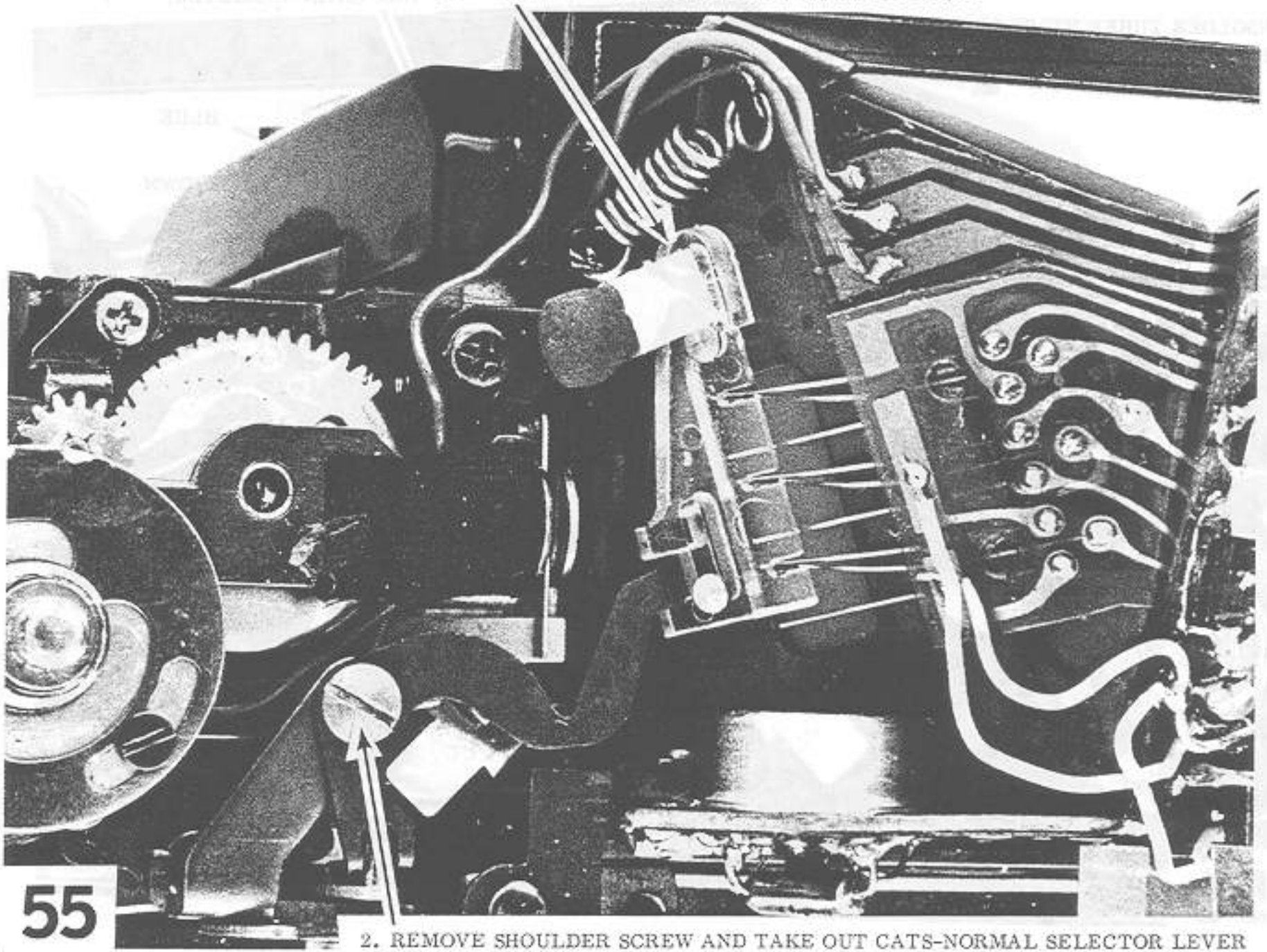
53

Difference

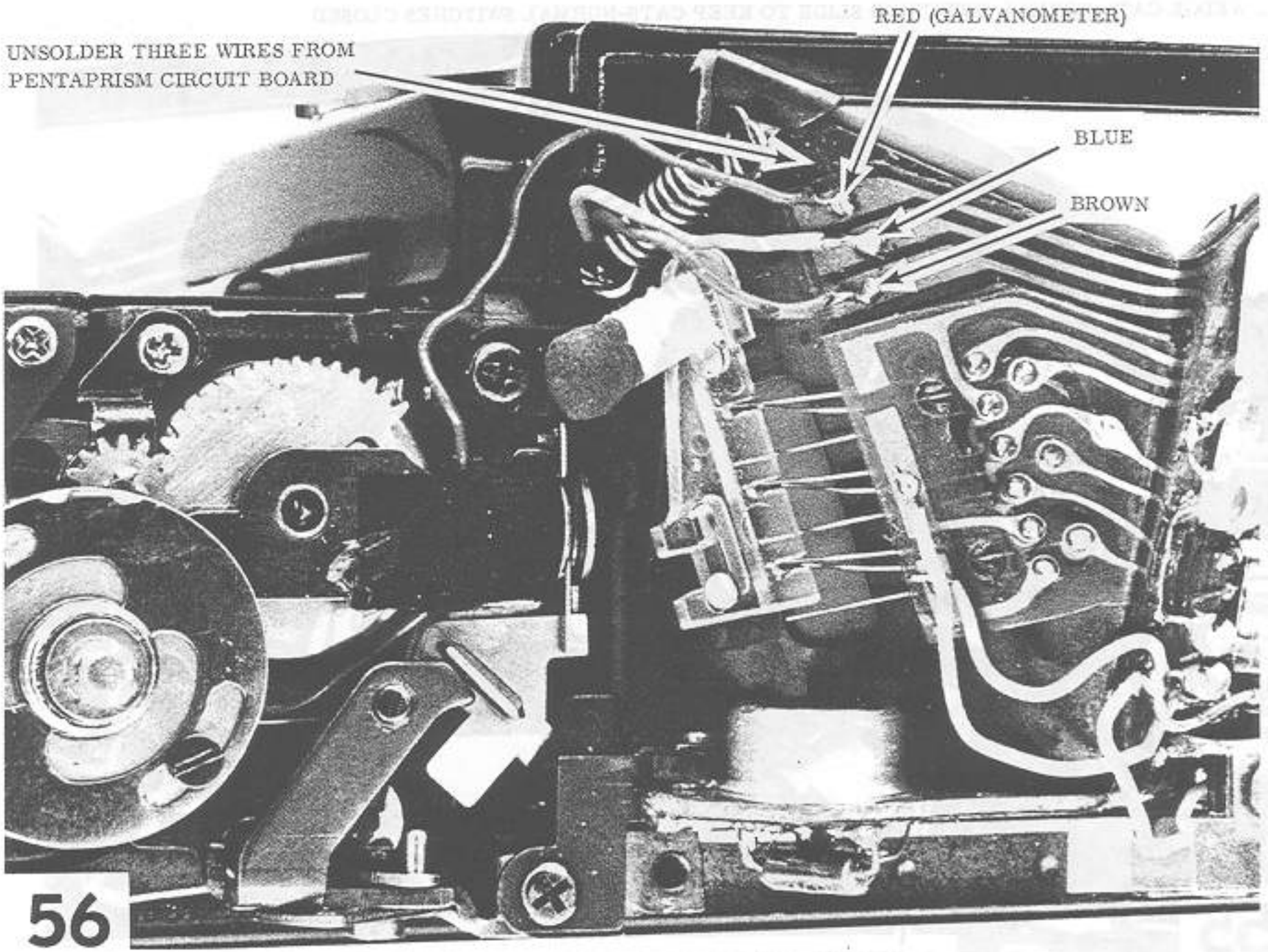
VERSION #2 MODIFIED TO VERSION #4

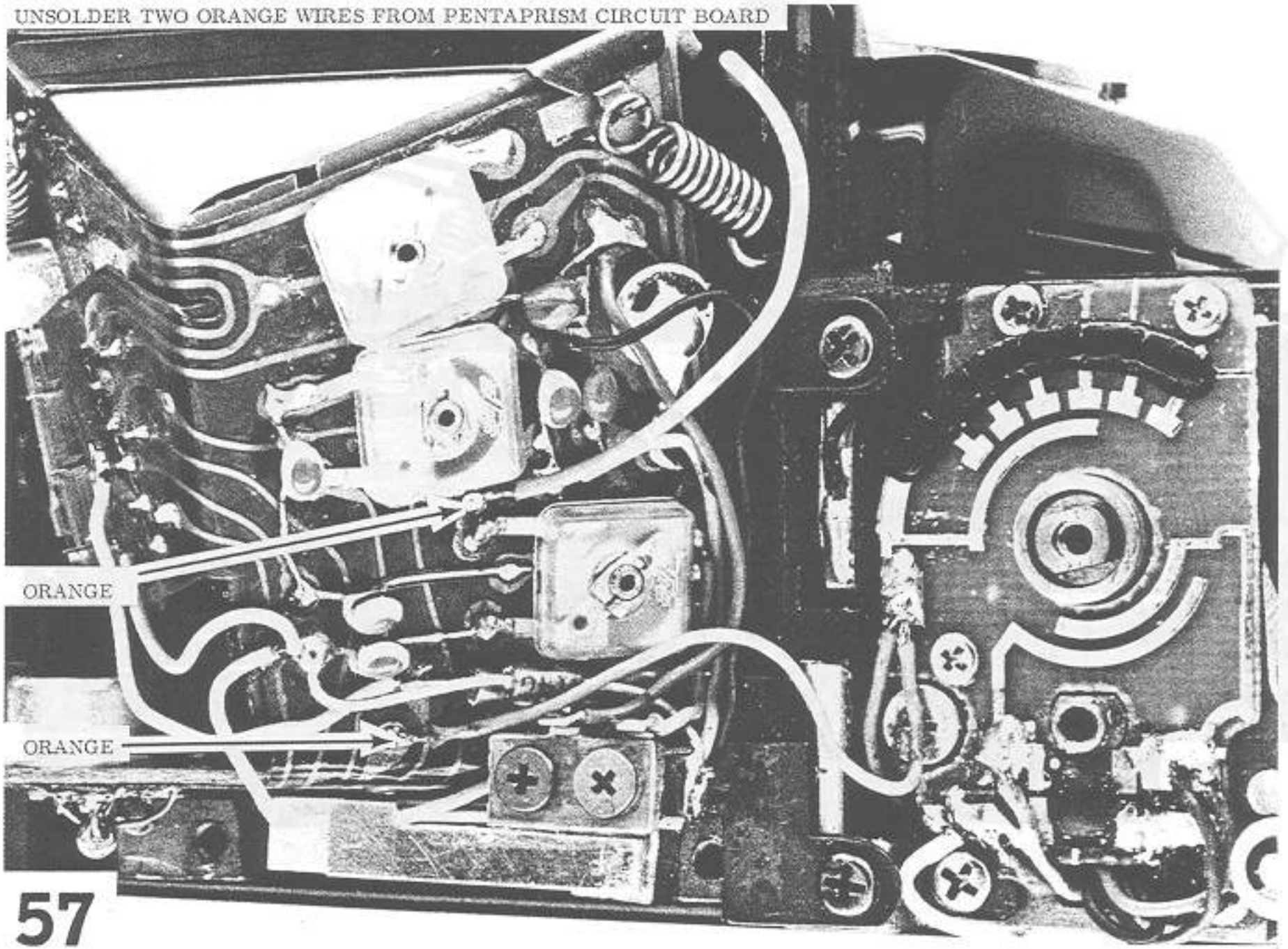


1. WEDGE CATS-NORMAL SWITCHING SLIDE TO KEEP CATS-NORMAL SWITCHES CLOSED

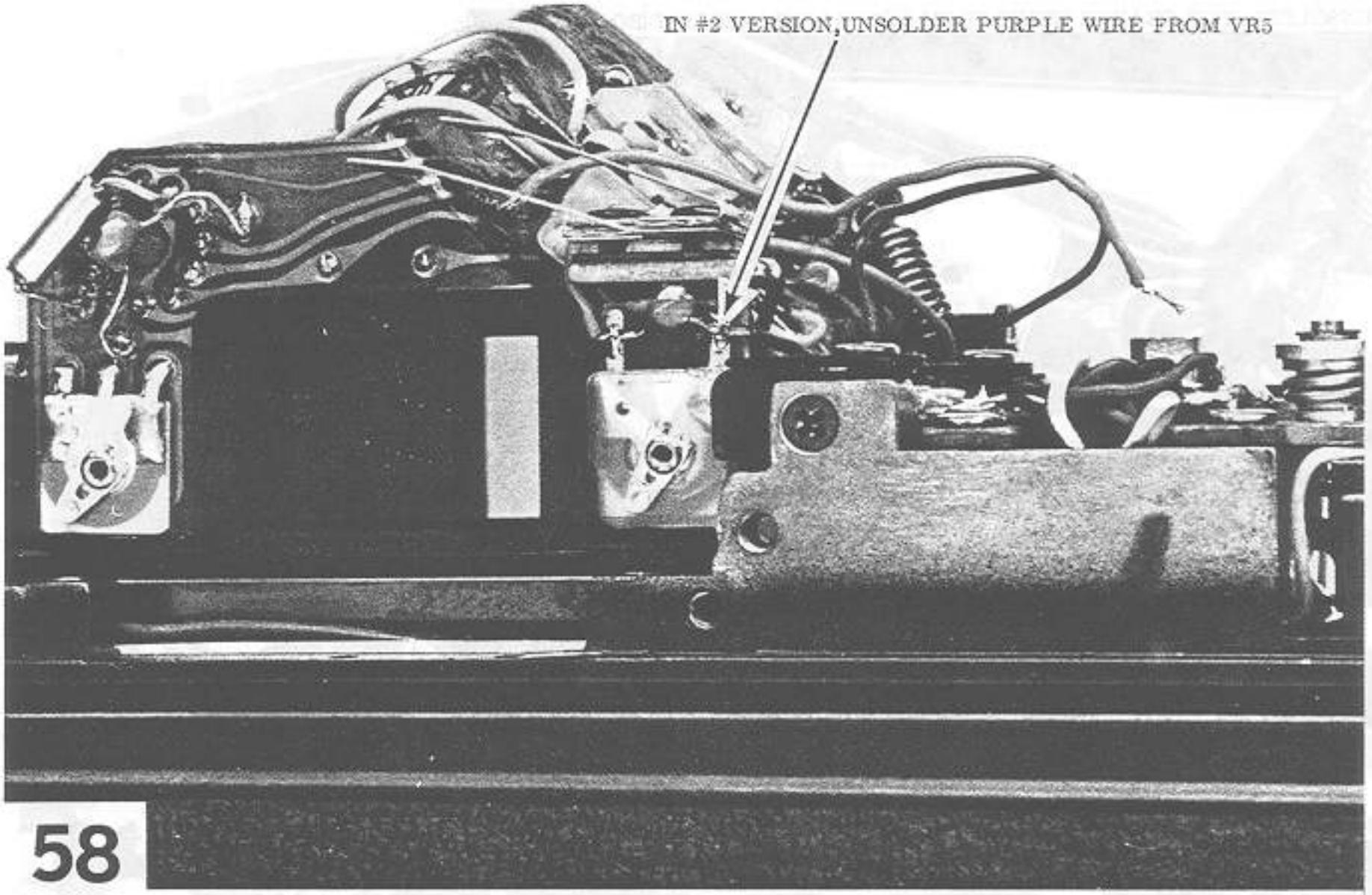


2. REMOVE SHOULDER SCREW AND TAKE OUT CATS-NORMAL SELECTOR LEVER


UNSOLDER THREE WIRES FROM
PENTAPRISM CIRCUIT BOARD
RED (GALVANOMETER)
BLUE
BROWN

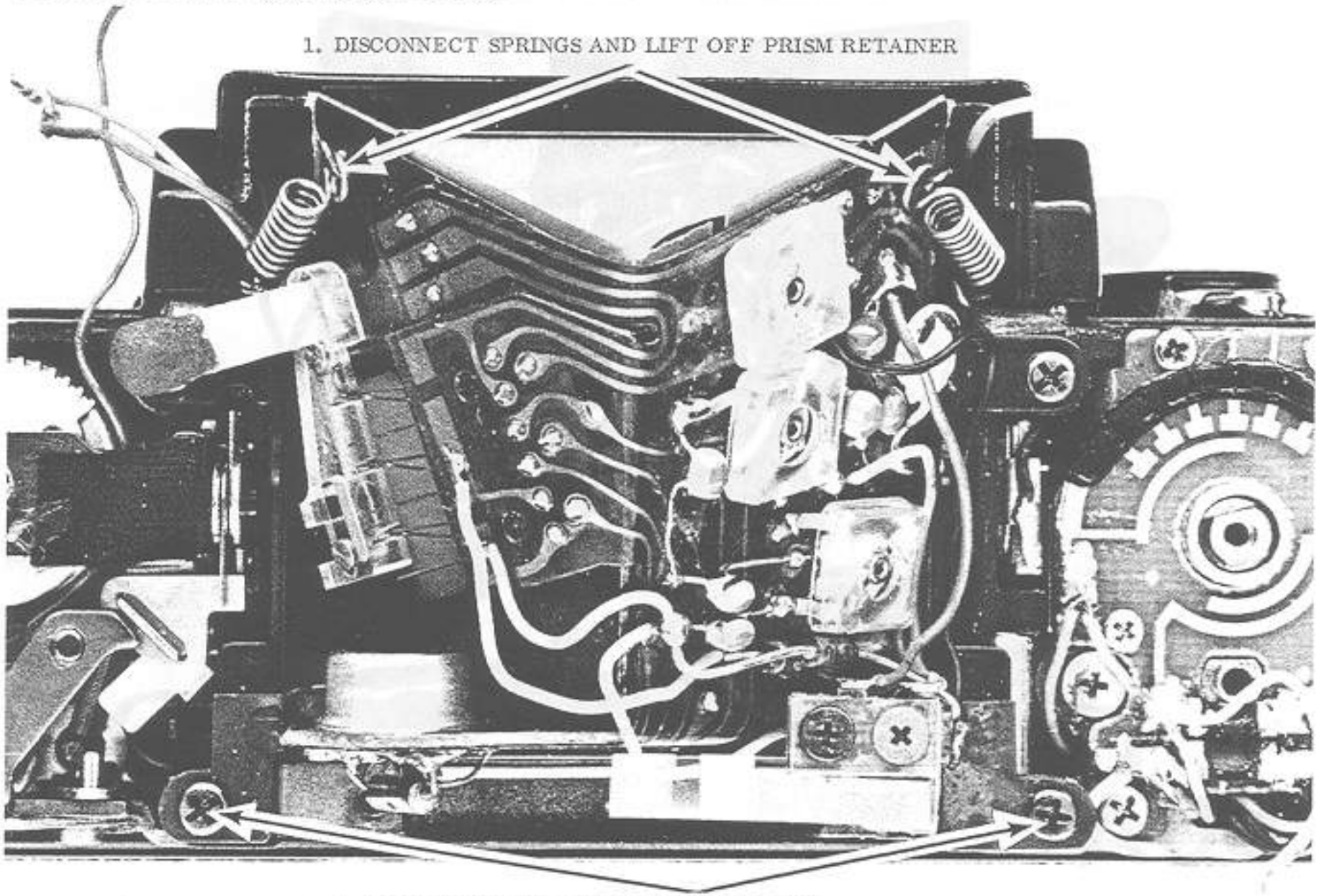

UNSOLDER TWO ORANGE WIRES FROM PENTAPRISM CIRCUIT BOARD
ORANGE
ORANGE

57


IN #2 VERSION, UNSOLDER PURPLE WIRE FROM VR5

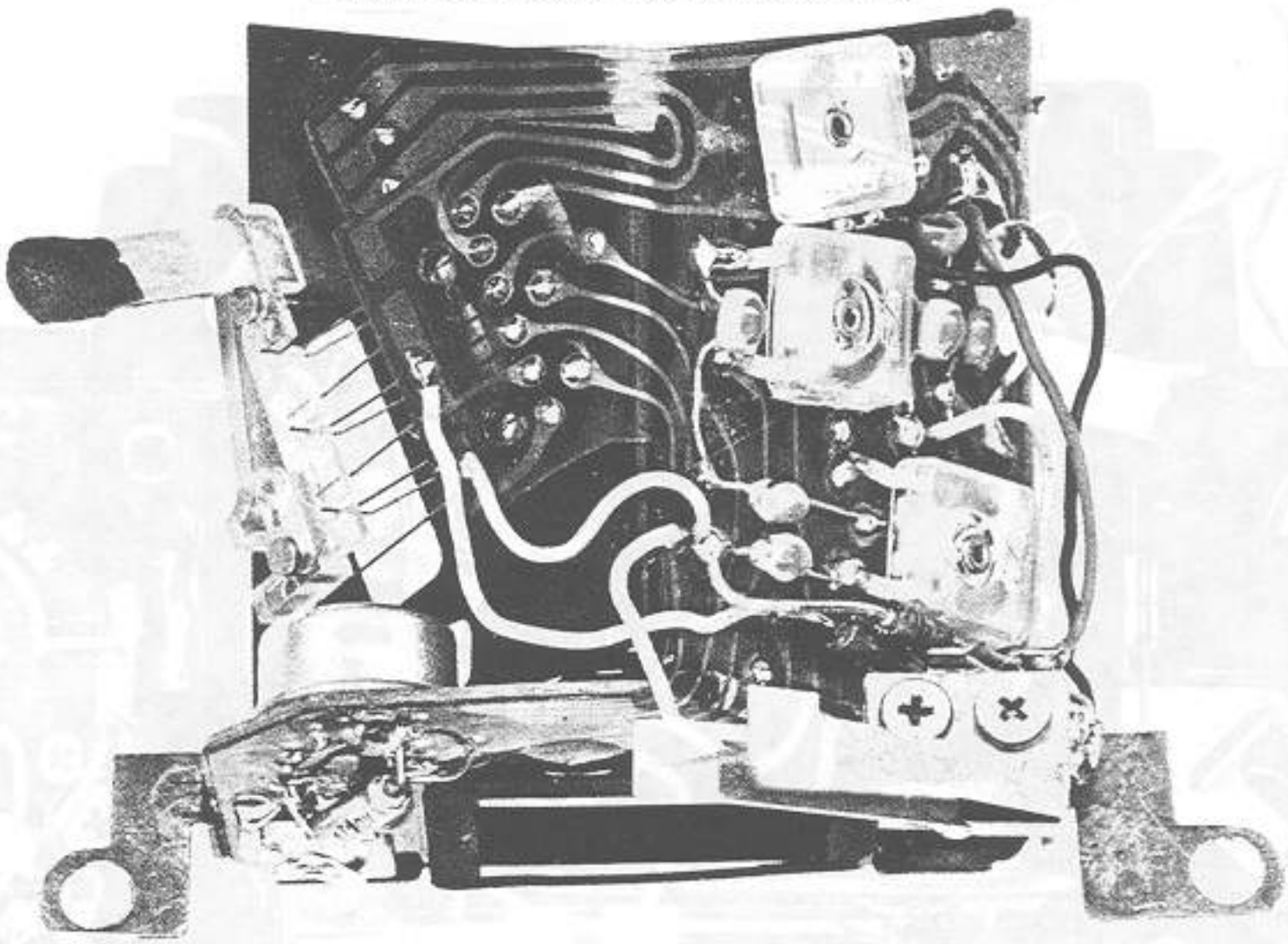
TO REMOVE PENTAPRISM CIRCUIT BOARD:

1. DISCONNECT SPRINGS AND LIFT OFF PRISM RETAINER

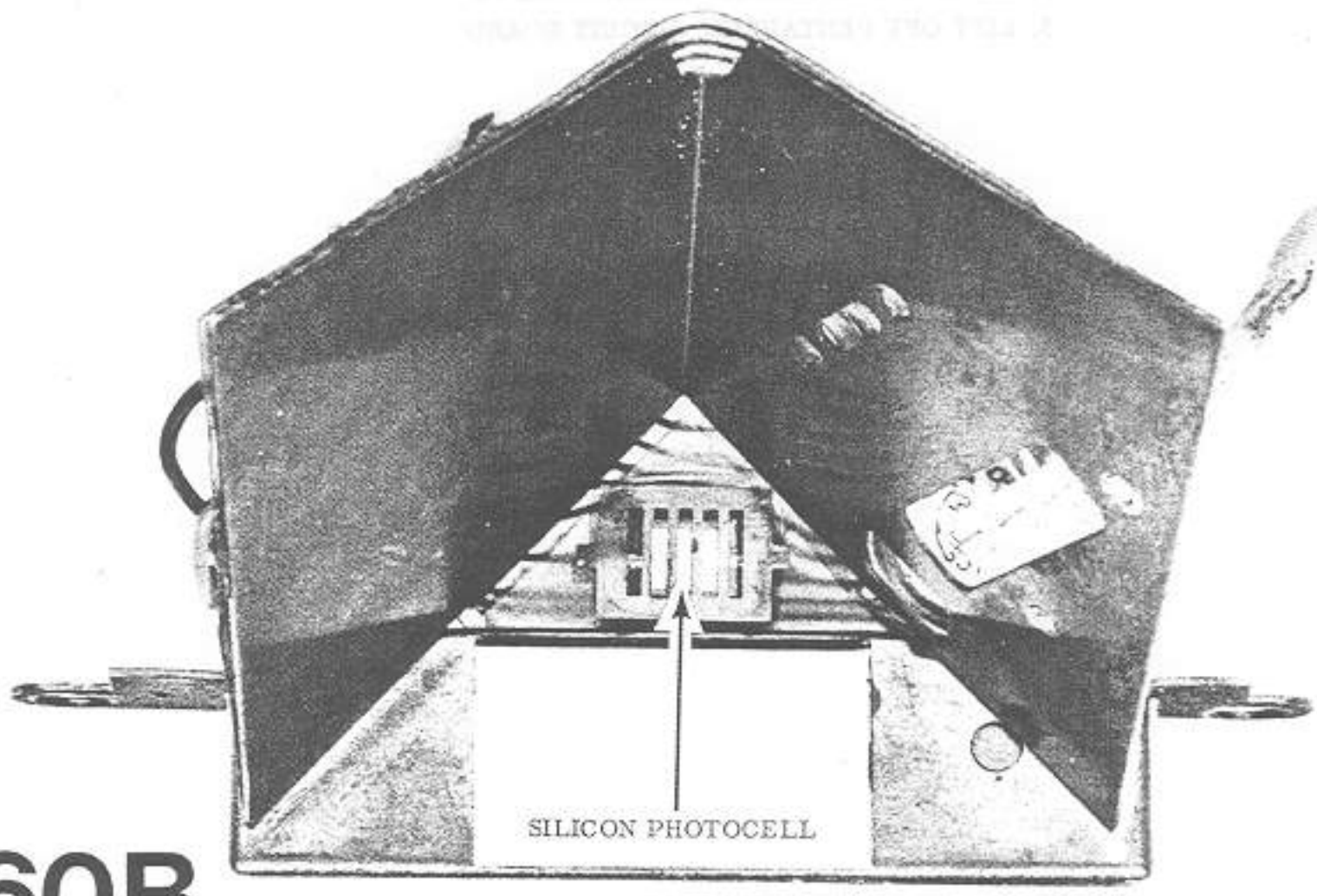


2. REMOVE TWO CIRCUIT-BOARD SCREWS
3. LIFT OFF PENTAPRISM CIRCUIT BOARD

PENTAPRISM CIRCUIT BOARD (VERSION #4)

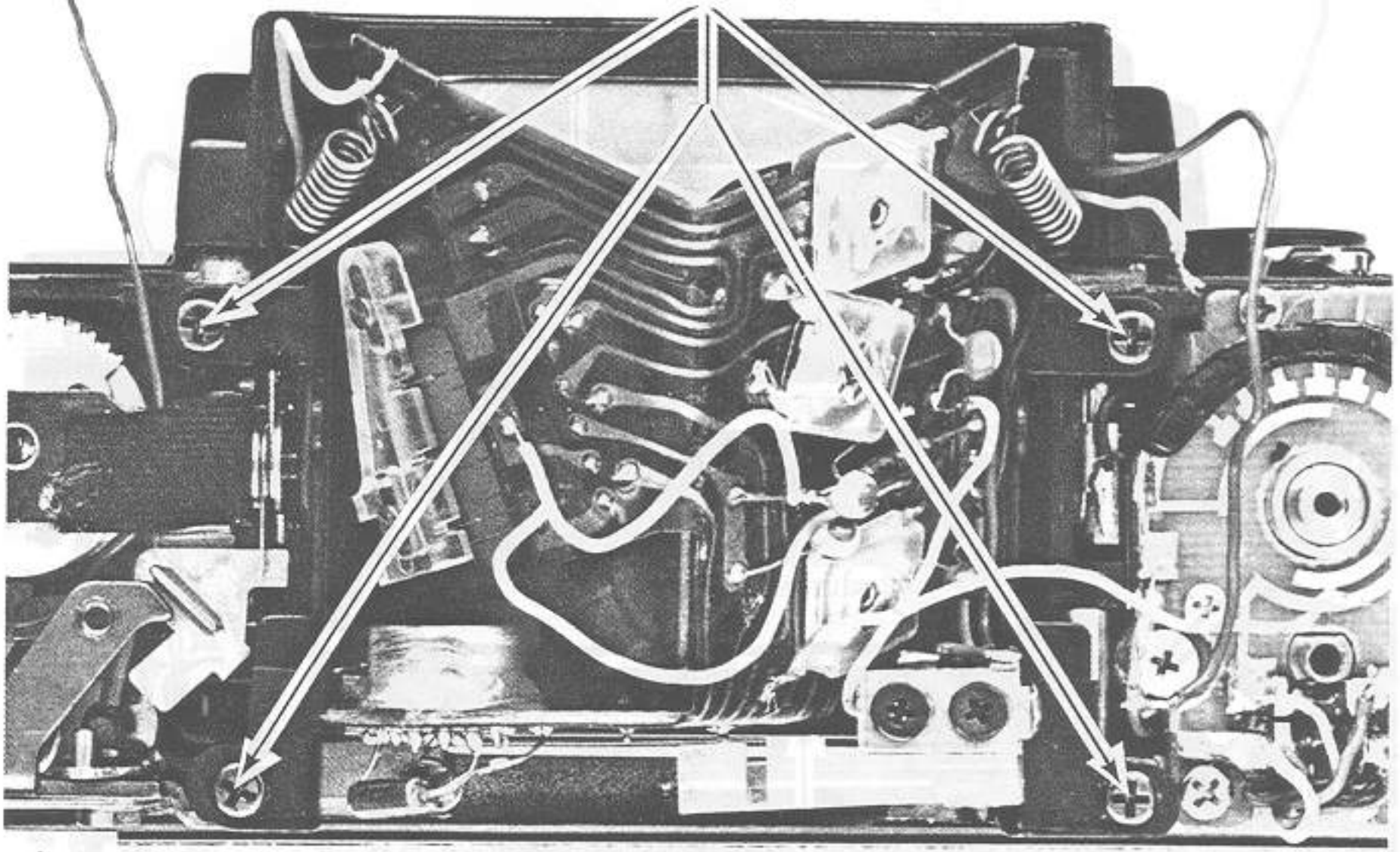


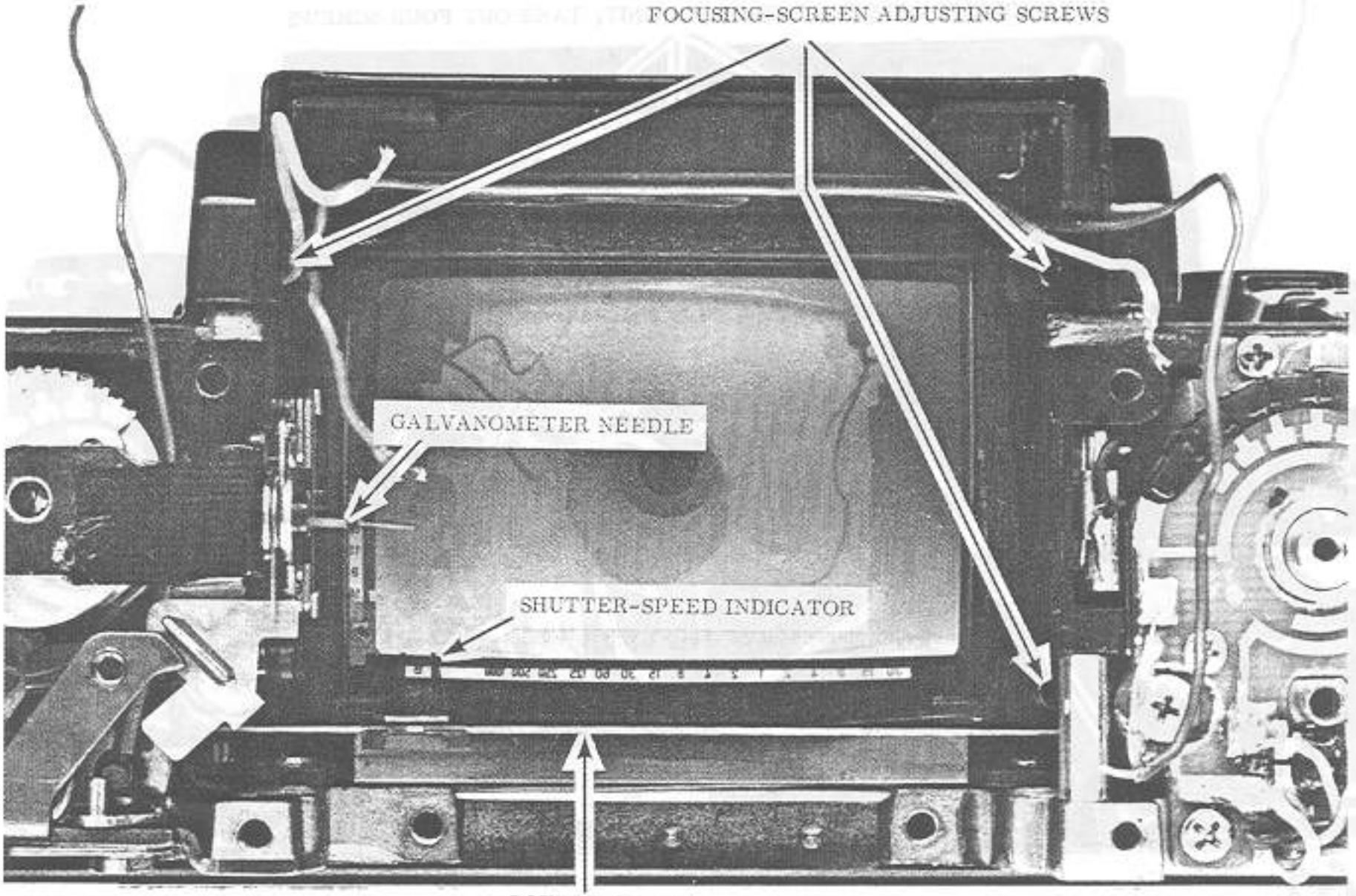
60A

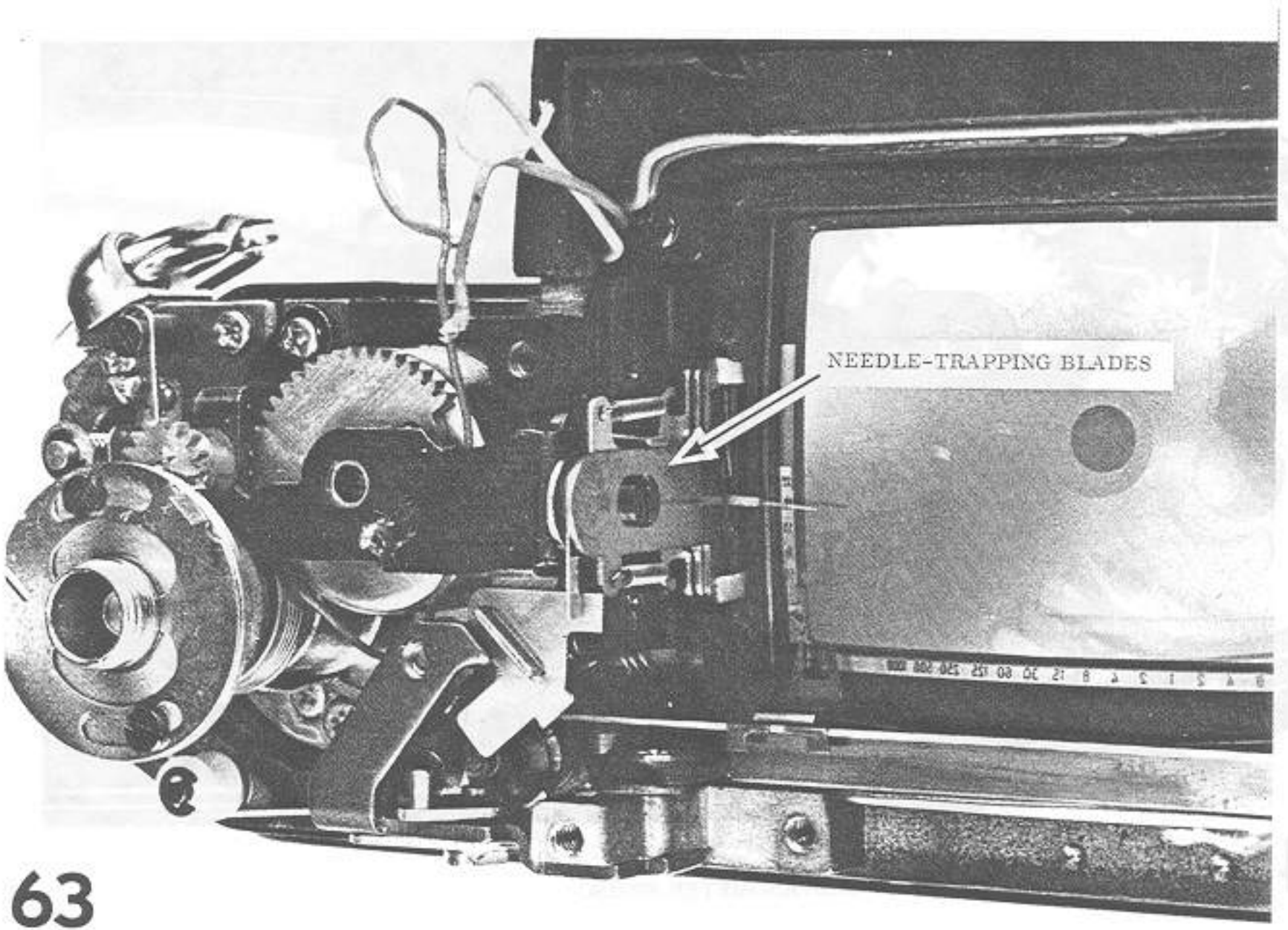


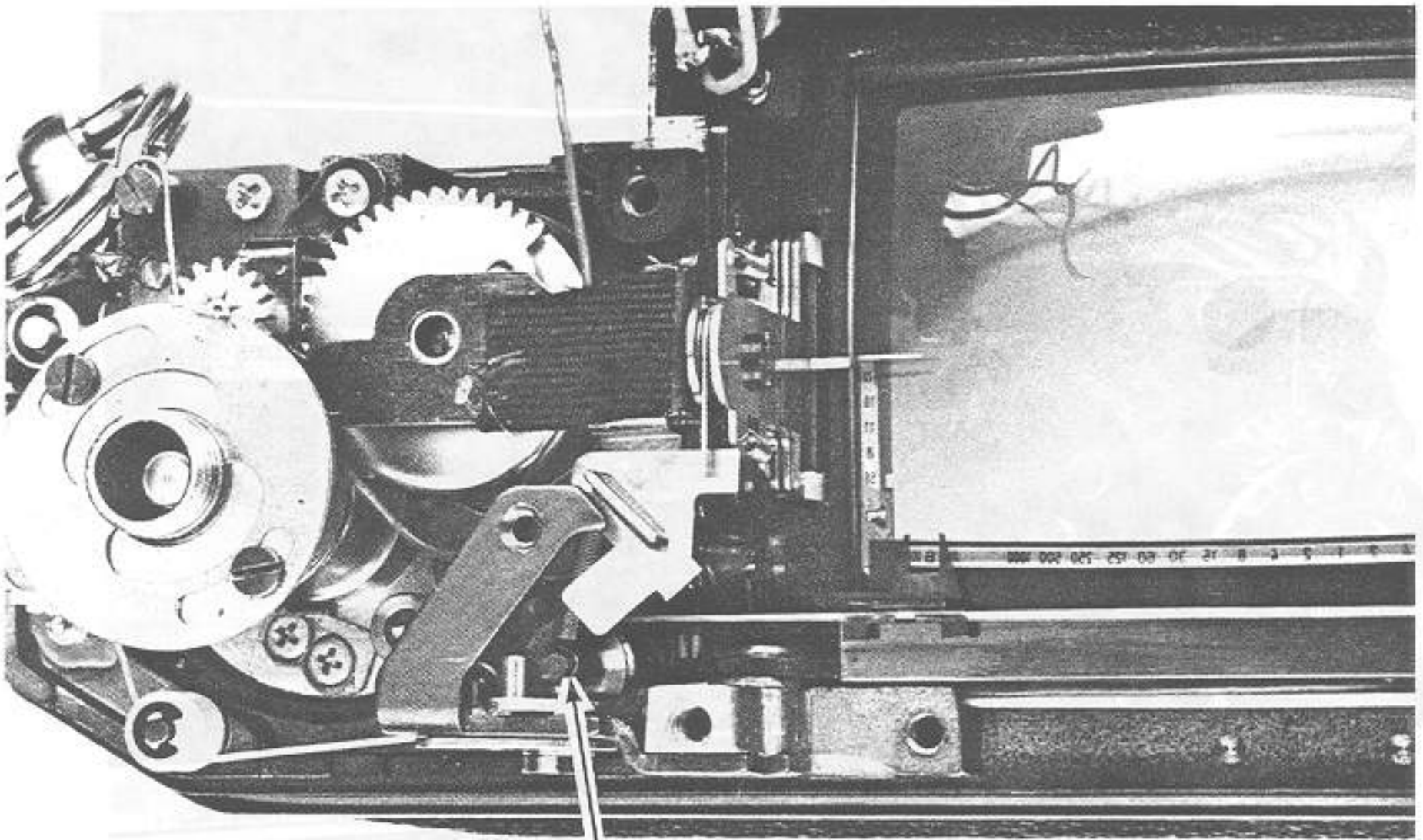
60B

TO REMOVE COMPLETE PENTAPRISM UNIT, TAKE OUT FOUR SCREWS



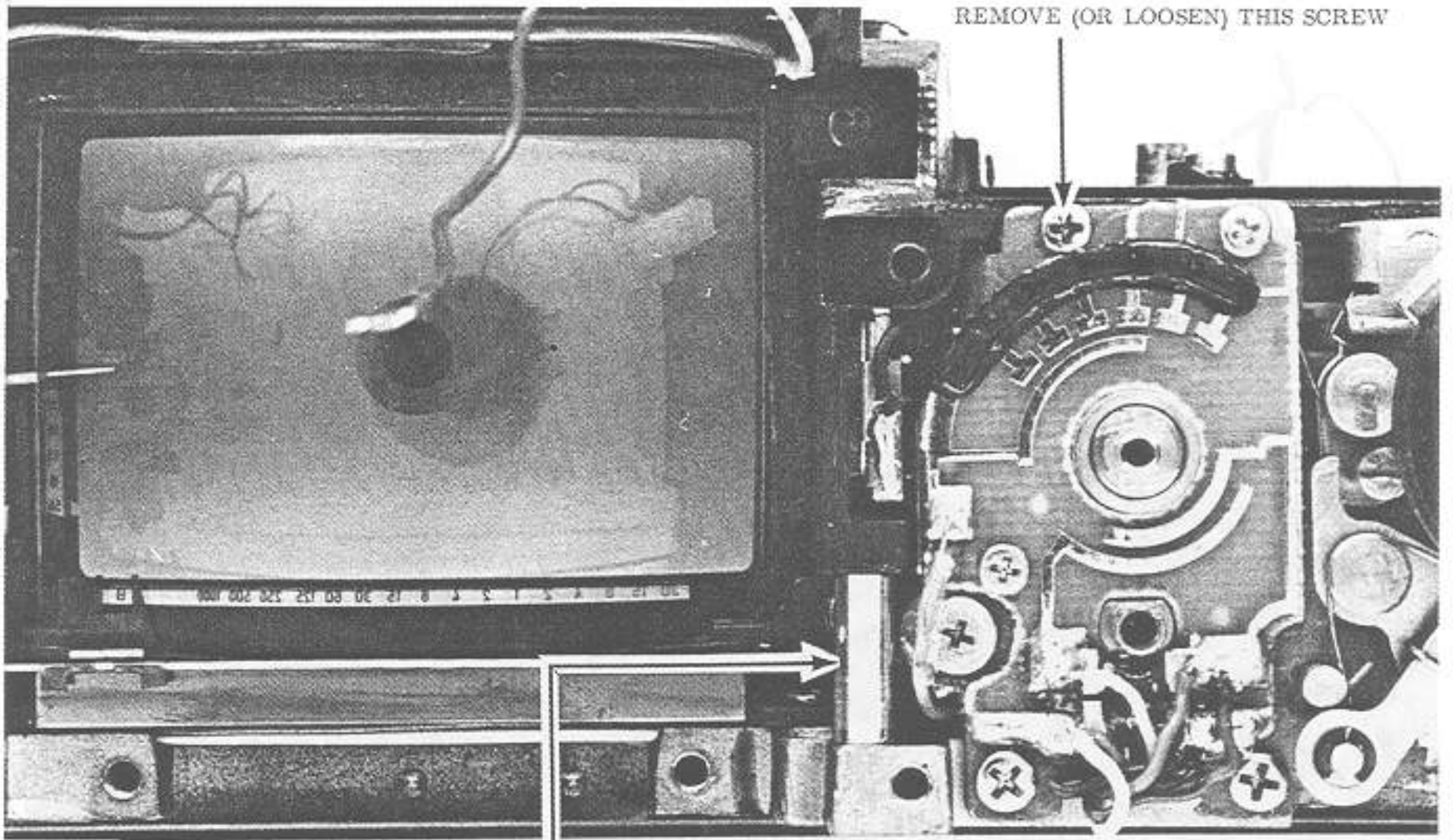

FOCUSING-SCREEN ADJUSTING SCREWS
GALVANOMETER NEEDLE
SHUTTER-SPEED INDICATOR
COUPLING CORD


NEEDLE-TRAPPING BLADES



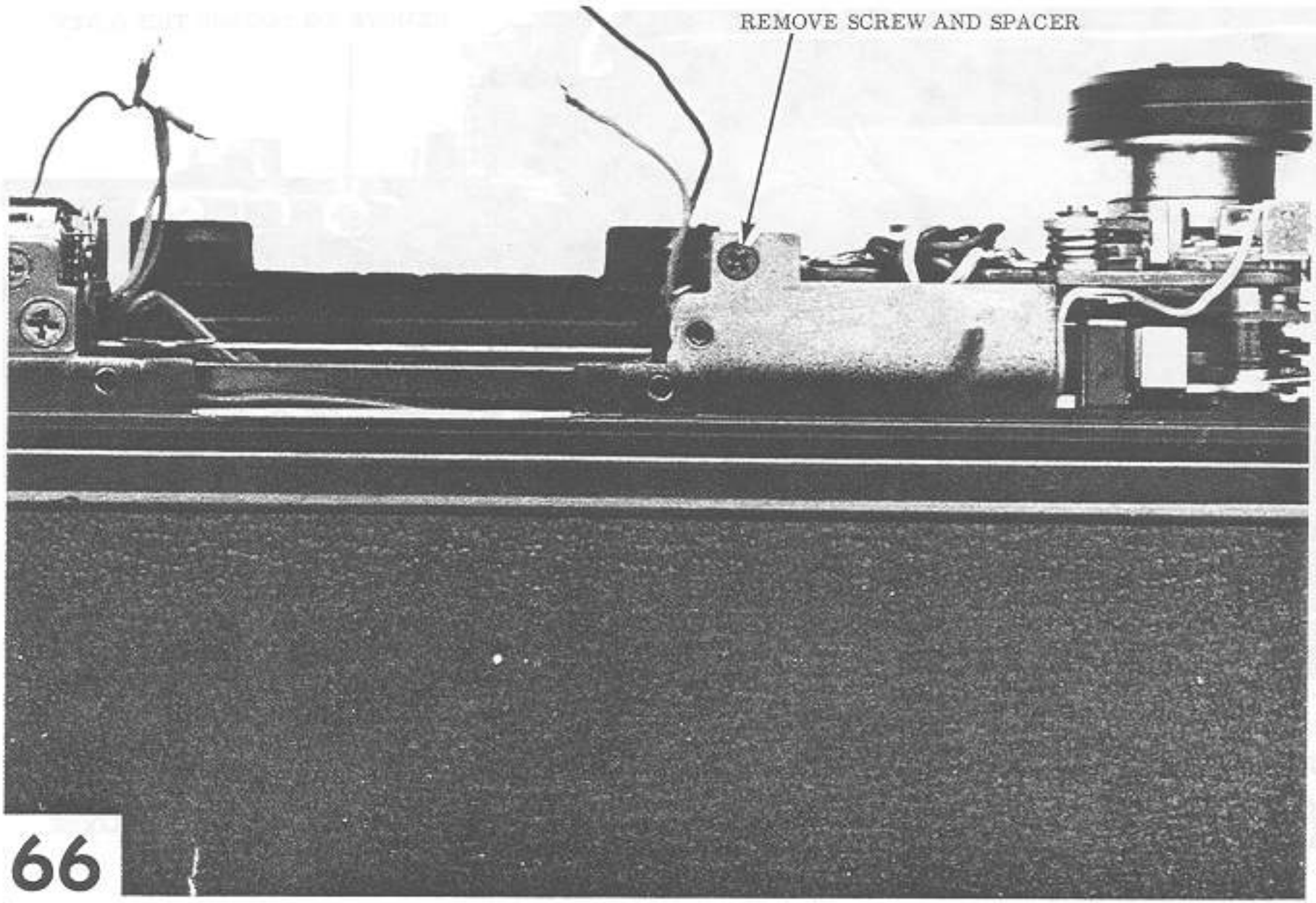
64

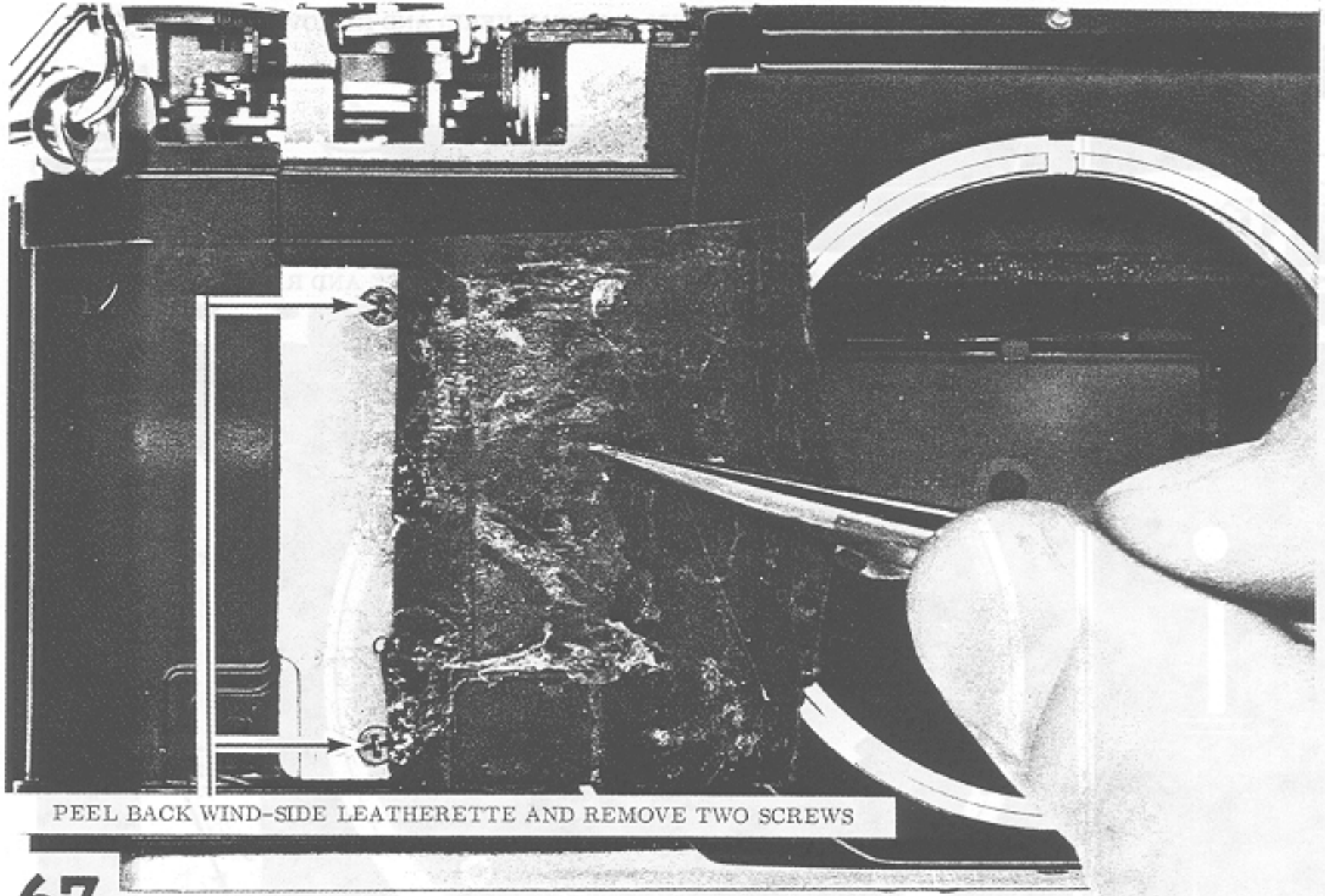
DISCONNECT GALVANOMETER SPRING



65

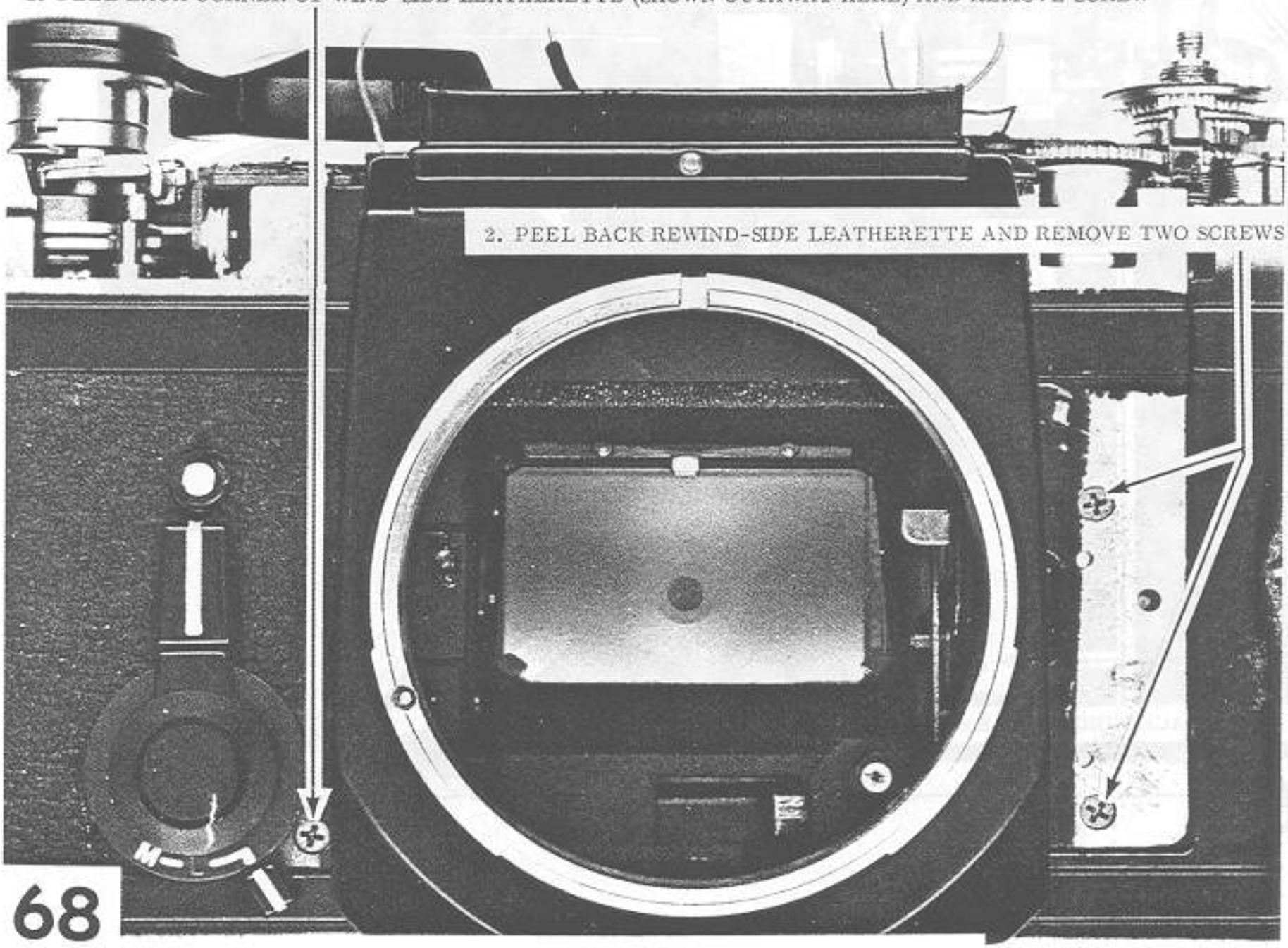
NOTE SPACER BETWEEN MIRROR CAGE AND CAMERA BODY -- SPACER WILL BE LOOSE WHEN YOU REMOVE THE SCREW SHOWN IN THE NEXT ILLUSTRATION


REMOVE SCREW AND SPACER



PEEL BACK WIND-SIDE LEATHERETTE AND REMOVE TWO SCREWS

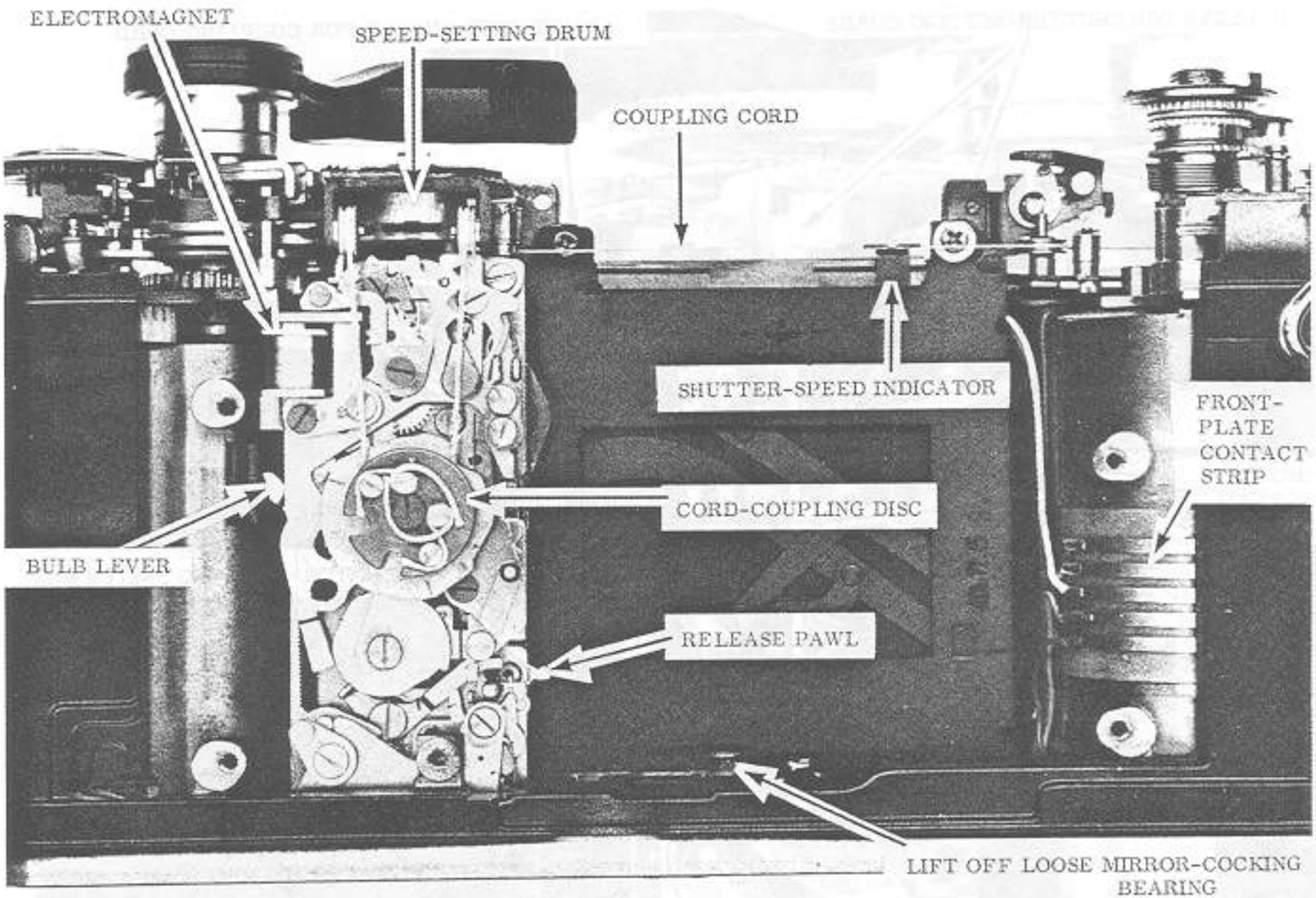
1. PEEL BACK CORNER OF WIND-SIDE LEATHERETTE (SHOWN CUTAWAY HERE) AND REMOVE SCREW



2. PEEL BACK REWIND-SIDE LEATHERETTE AND REMOVE TWO SCREWS

3. LIFT OUT FRONT-PLATE/MIRROR-CAGE ASSEMBLY

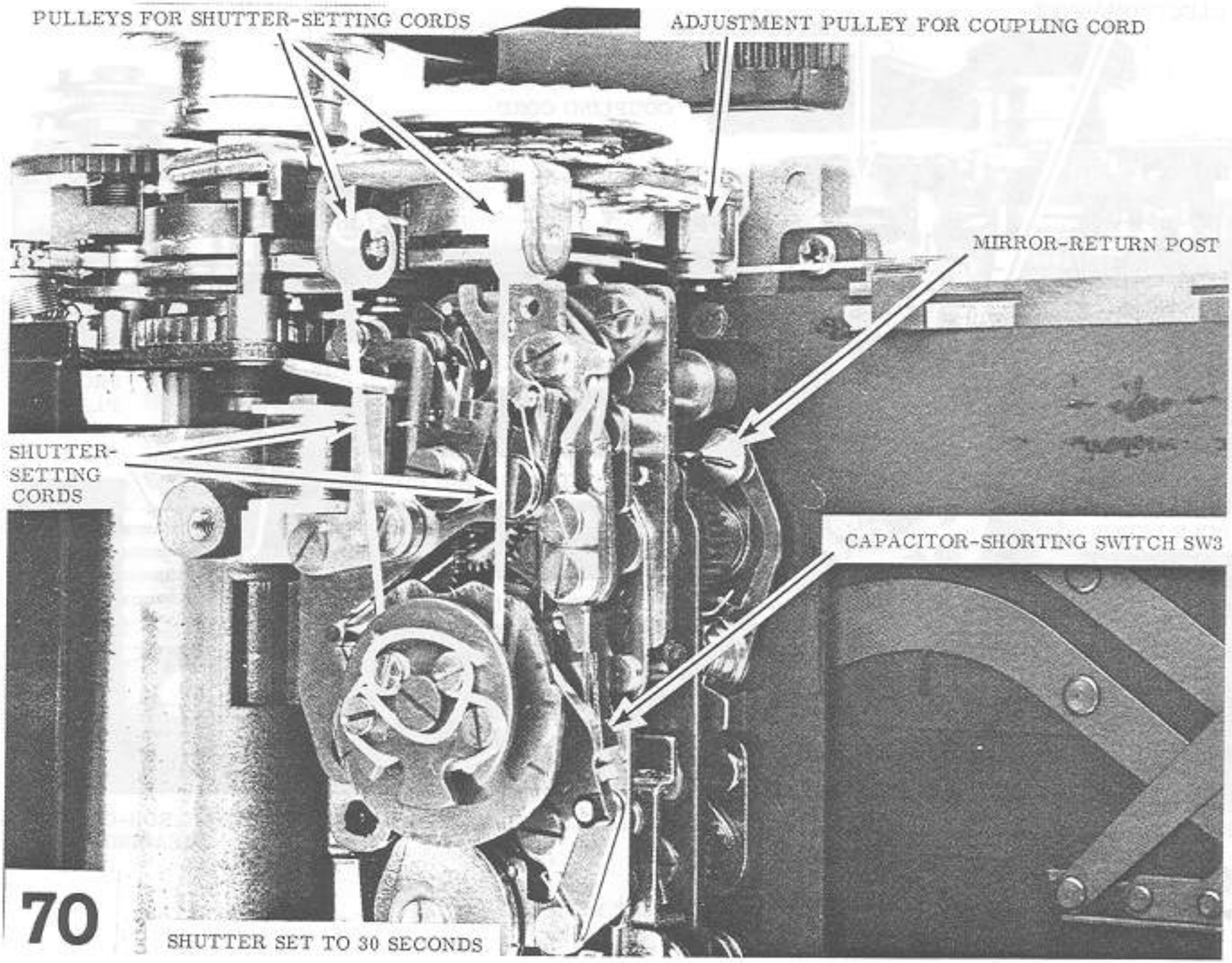
Shutter can be released when replacing front plate



69

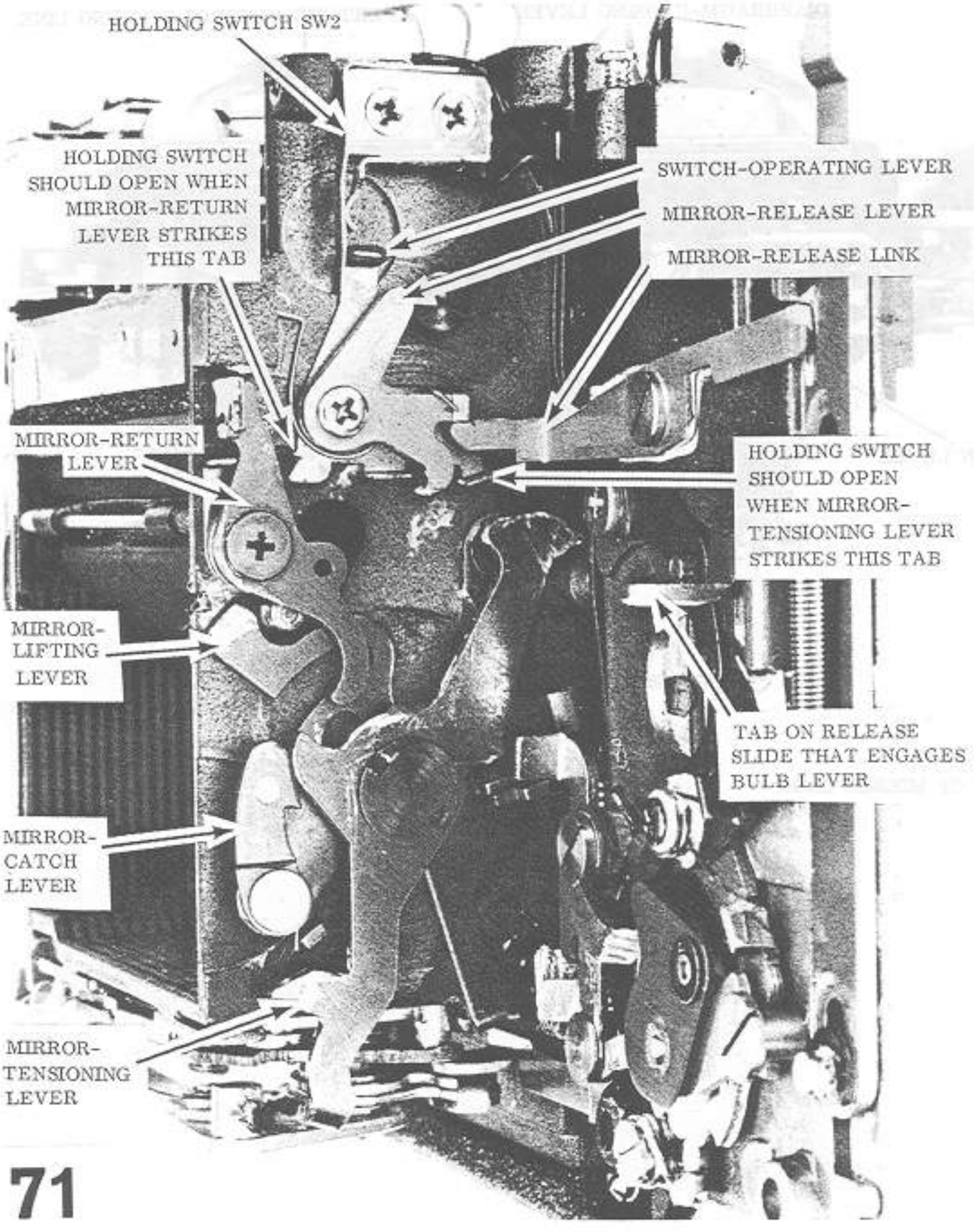
SHUTTER SET TO "BULB"

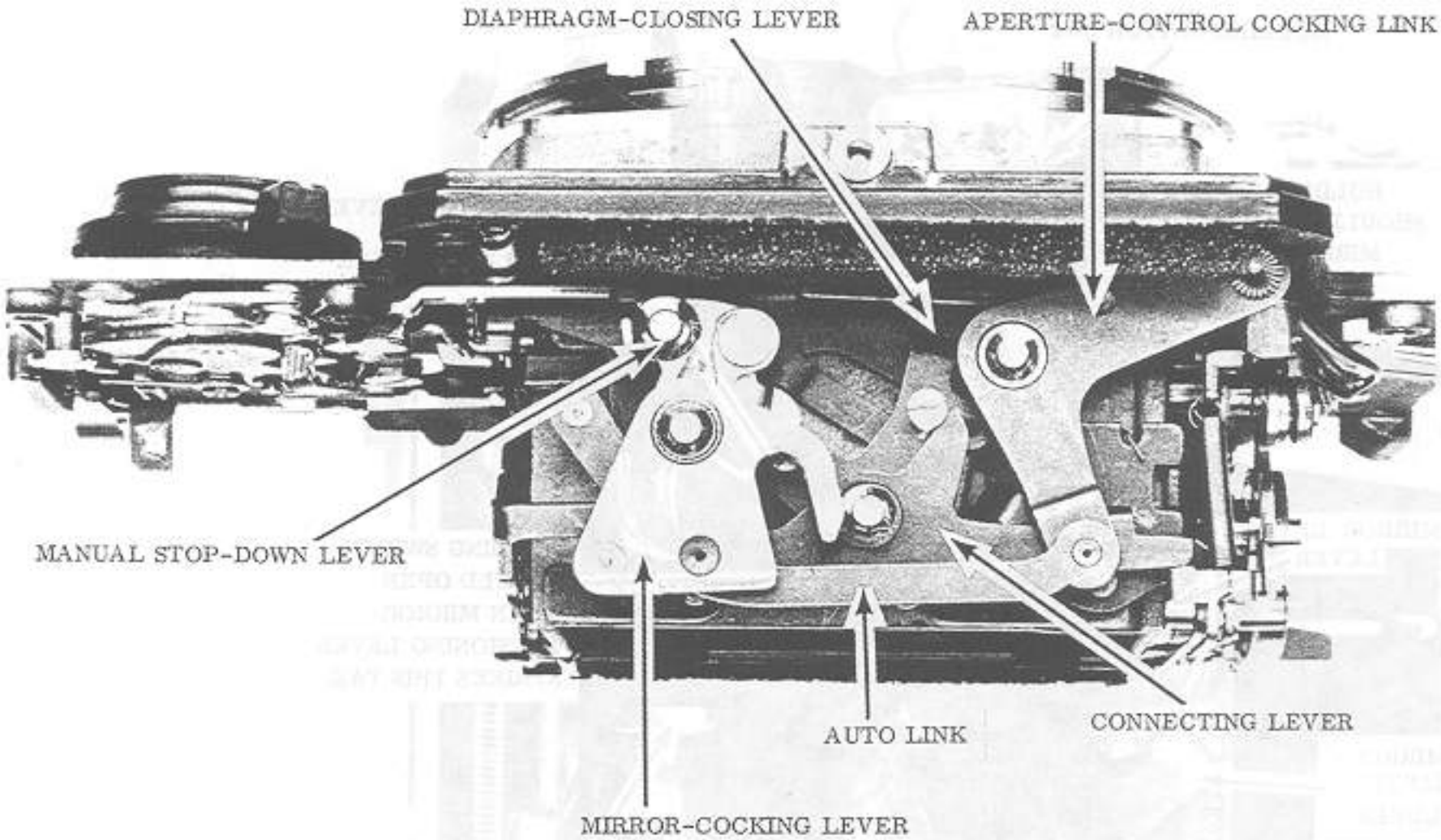
Check for stuck elec magnet if shutter is open



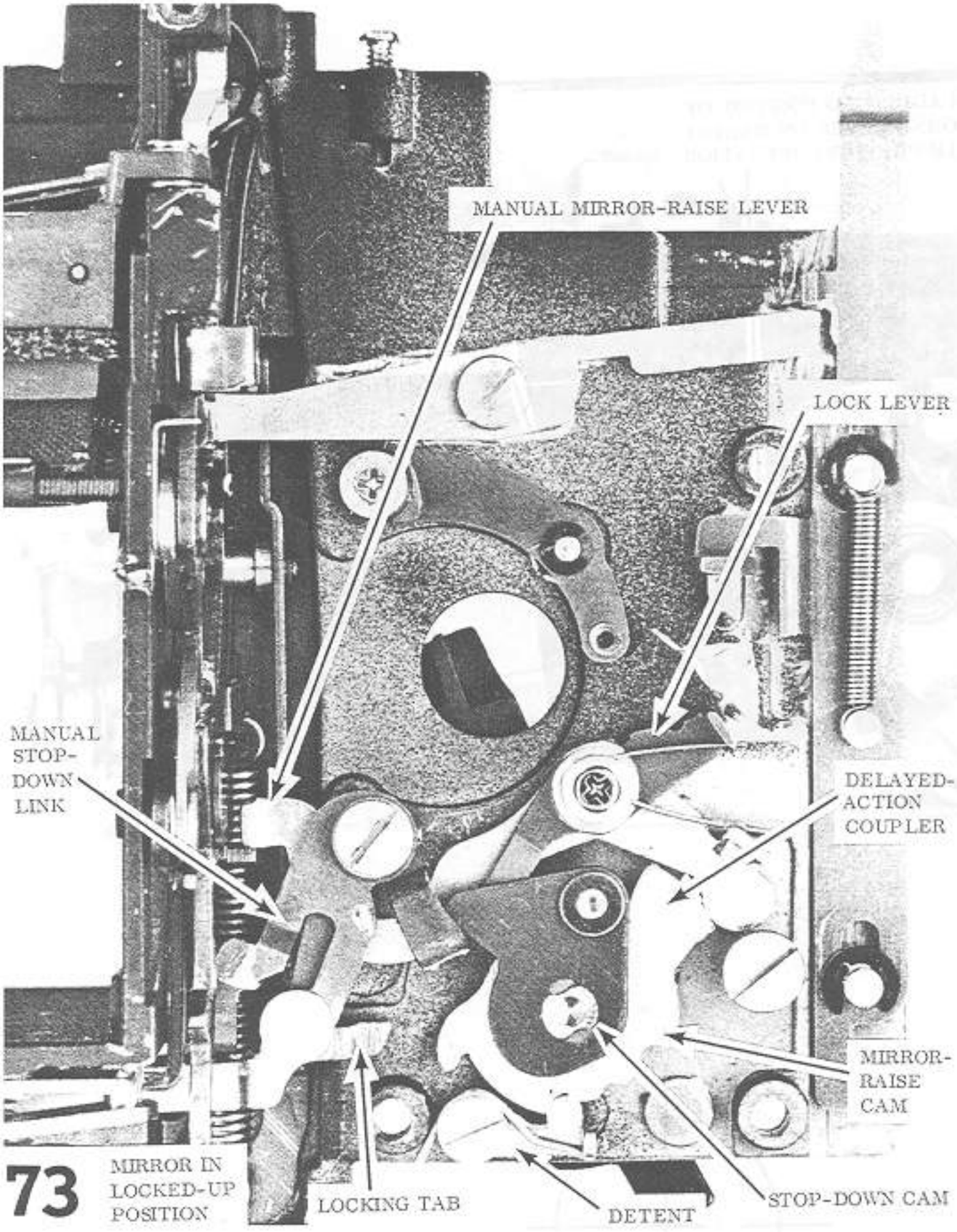
70

SHUTTER SET TO 30 SECONDS


HOLDING SWITCH SW2
HOLDING SWITCH SHOULD OPEN WHEN MIRROR-RETURN LEVER STRIKES THIS TAB
SWITCH-OPERATING LEVER
MIRROR-RELEASE LEVER
MIRROR-RELEASE LINK
MIRROR-RETURN LEVER
HOLDING SWITCH SHOULD OPEN WHEN MIRROR-TENSIONING LEVER STRIKES THIS TAB
MIRROR-LIFTING LEVER
TAB ON RELEASE SLIDE THAT ENGAGES BULB LEVER
MIRROR-CATCH LEVER
MIRROR-TENSIONING LEVER



72 BOTTOM OF MIRROR CAGE


MANUAL MIRROR-RAISE LEVER
LOCK LEVER
MANUAL STOP-DOWN LINK
DELAYED-ACTION COUPLER
MIRROR-RAISE CAM
MIRROR IN LOCKED-UP POSITION
LOCKING TAB
DETENT
STOP-DOWN CAM

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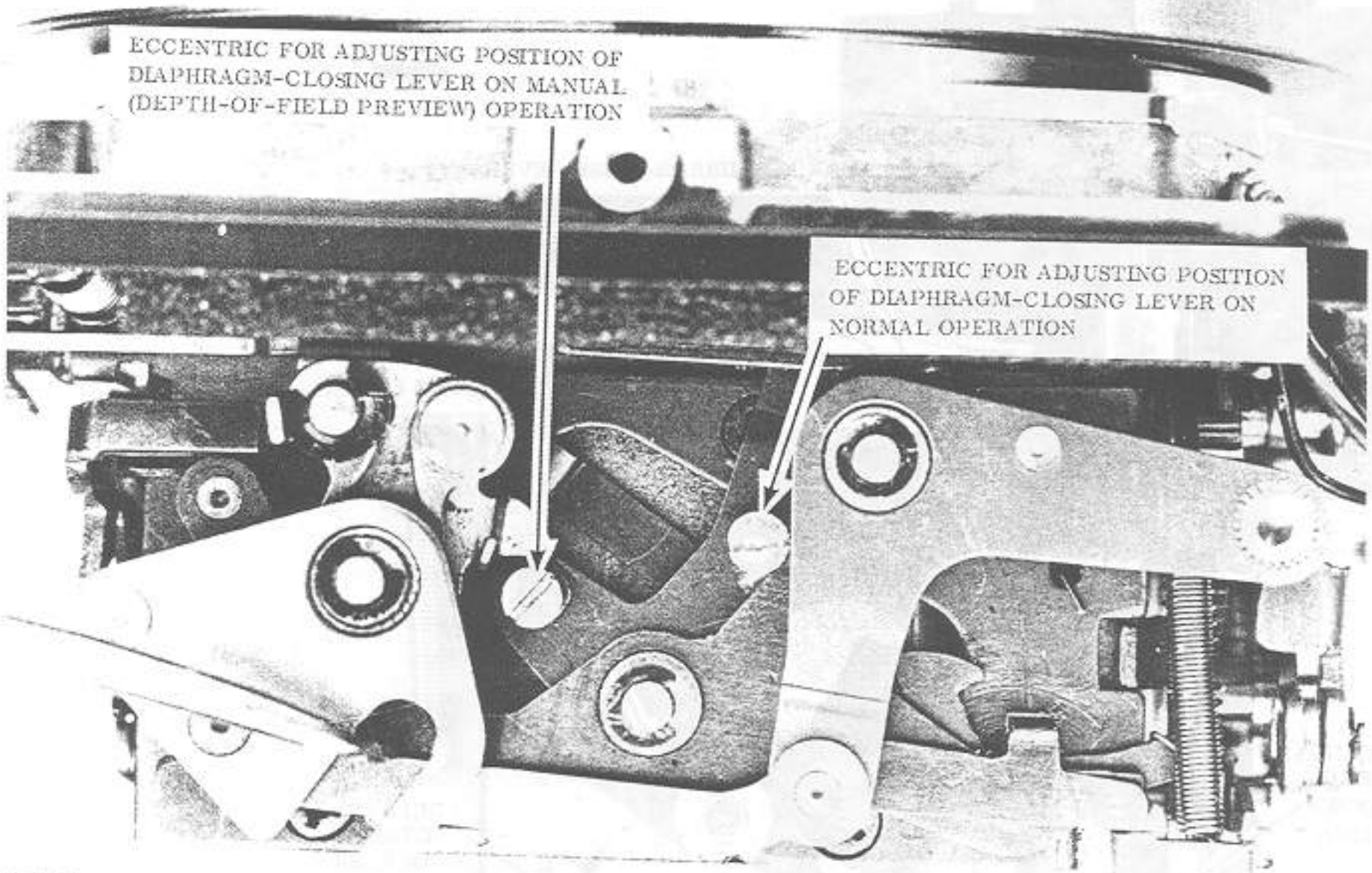
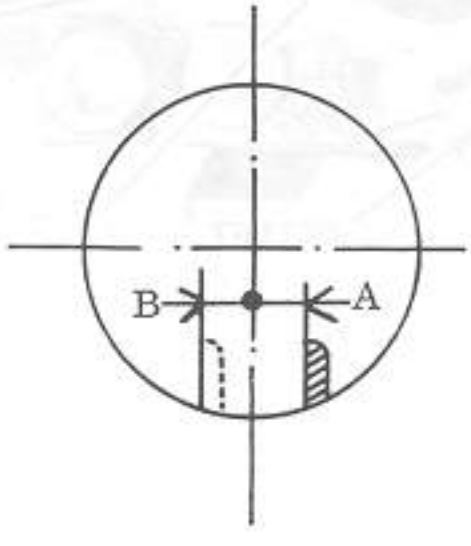
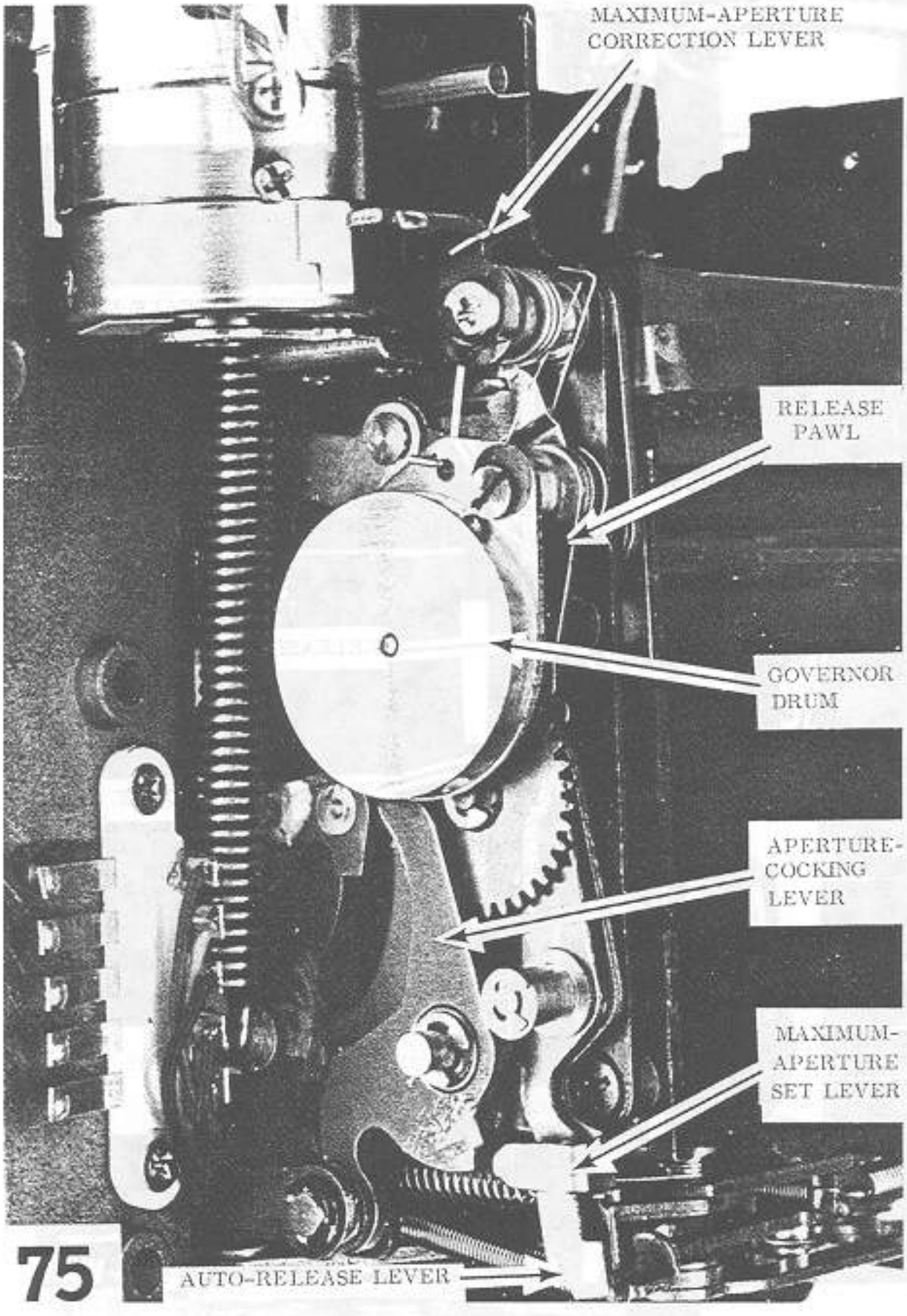

ECCENTRIC FOR ADJUSTING POSITION OF DIAPHRAGM-CLOSING LEVER ON MANUAL (DEPTH-OF-FIELD PREVIEW) OPERATION
ECCENTRIC FOR ADJUSTING POSITION OF DIAPHRAGM-CLOSING LEVER ON NORMAL OPERATION

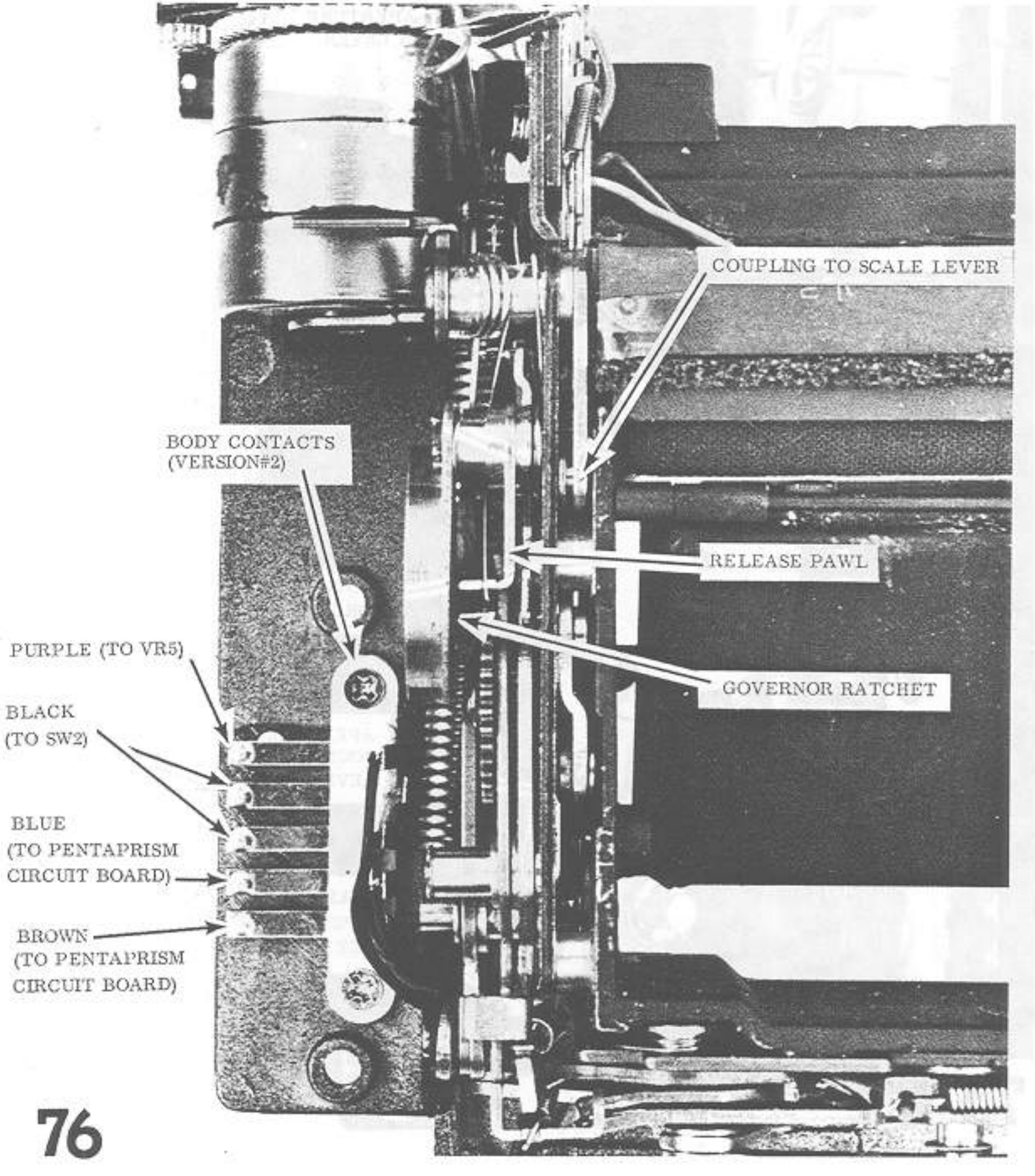


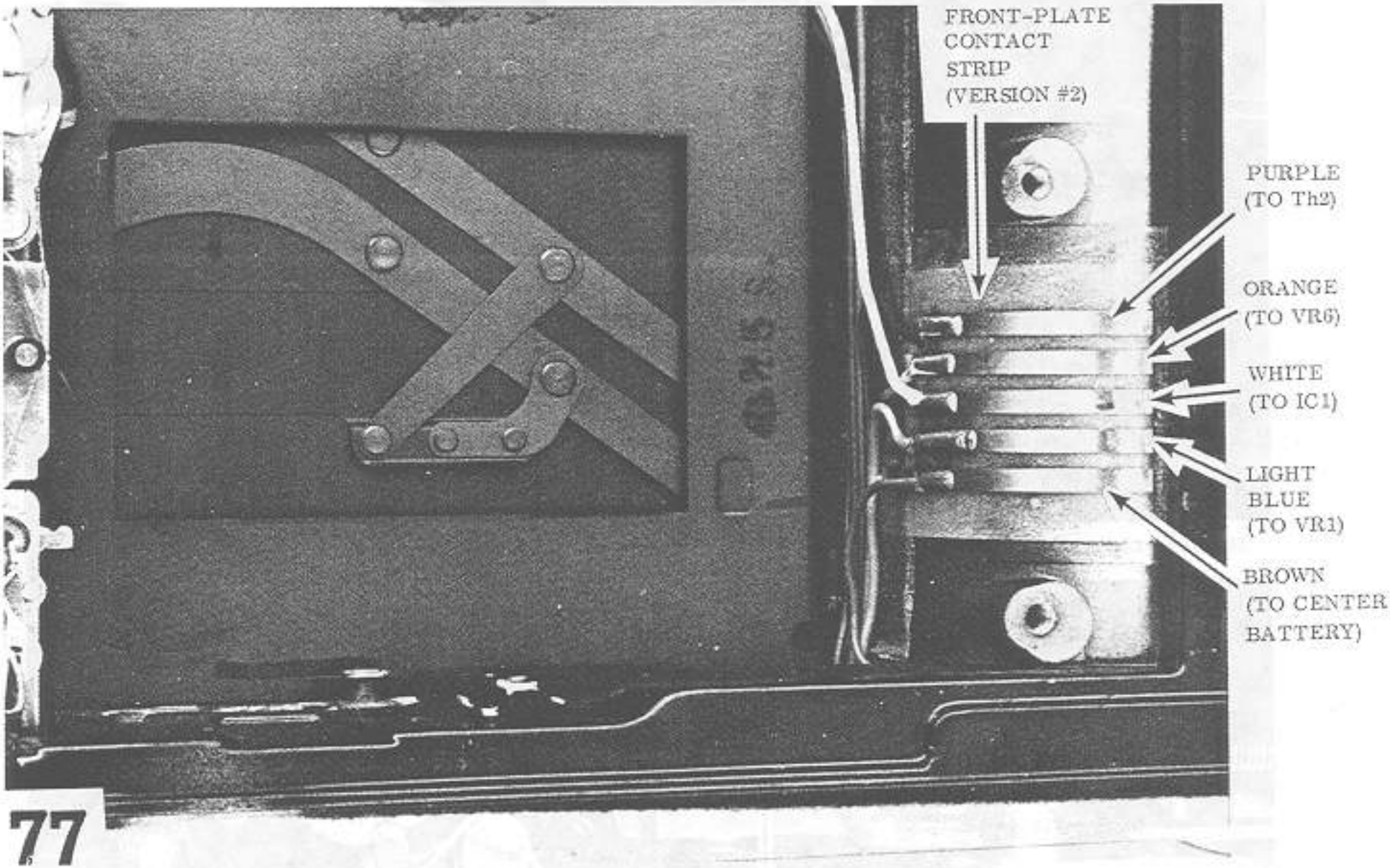
A = more than 5.5 mm

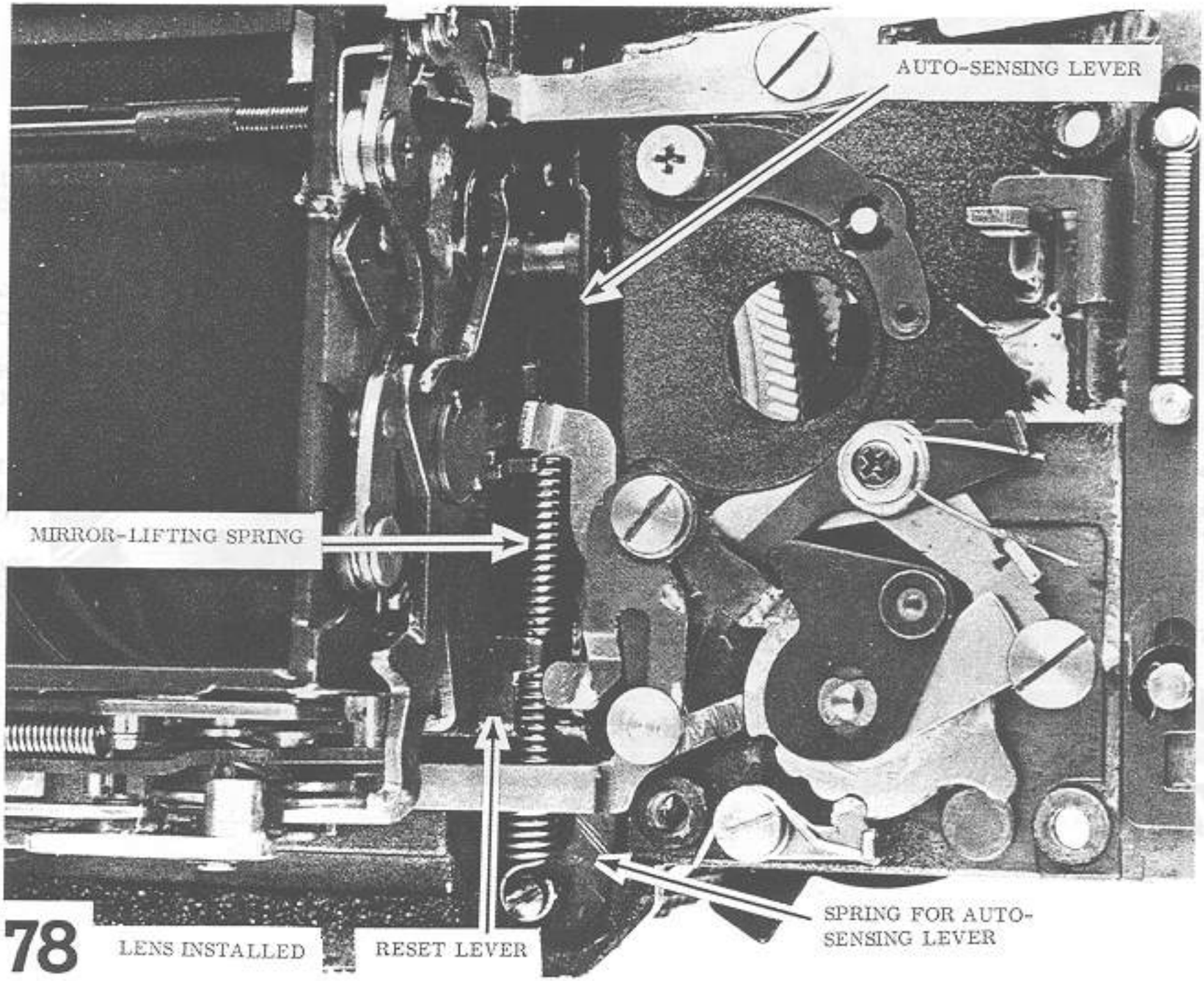
B = 1.8 — 3.2 mm

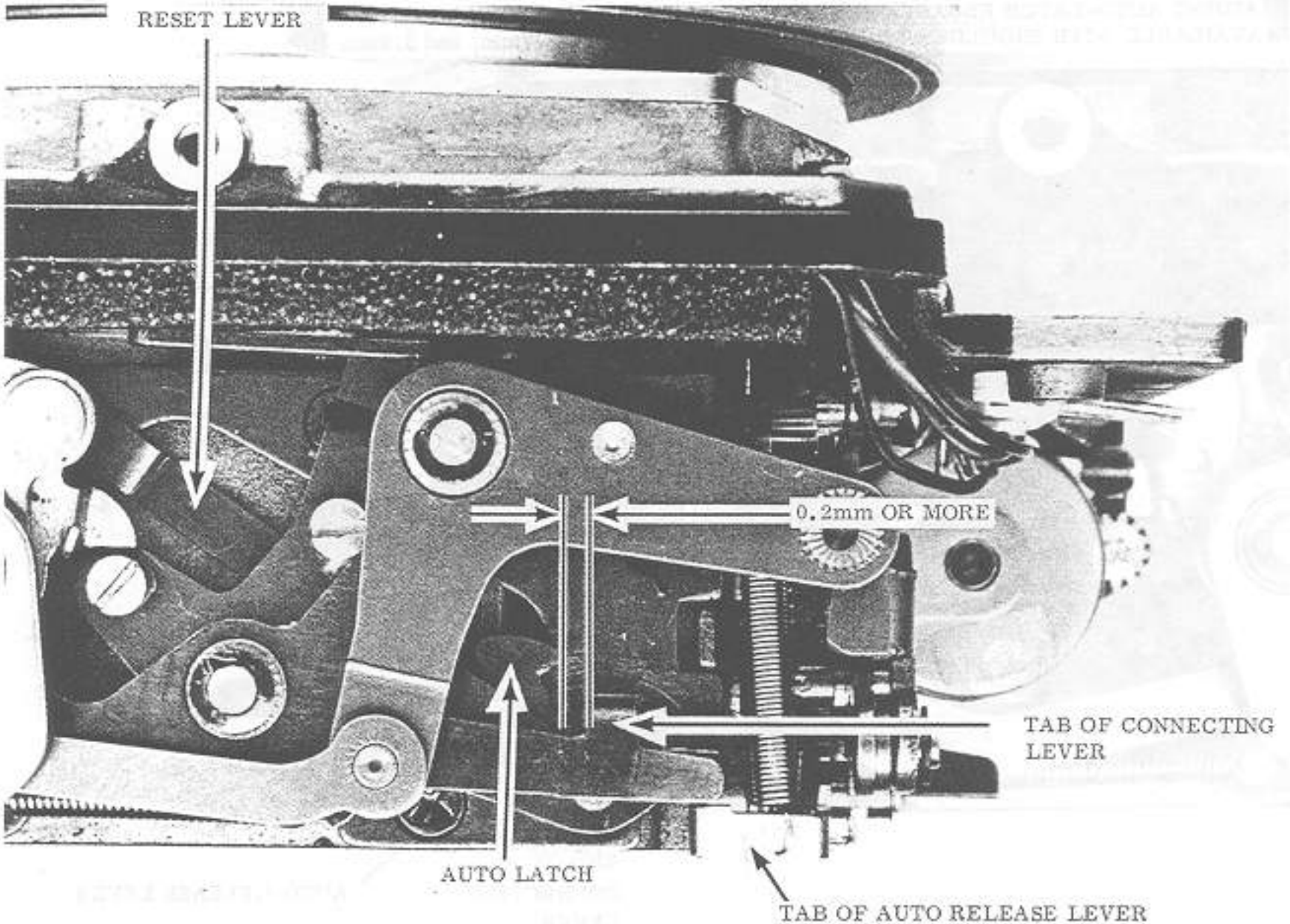

MAXIMUM-APERTURE CORRECTION LEVER
RELEASE PAWL
GOVERNOR DRUM
APERTURE-COCKING LEVER
MAXIMUM-APERTURE SET LEVER
AUTO-RELEASE LEVER

75

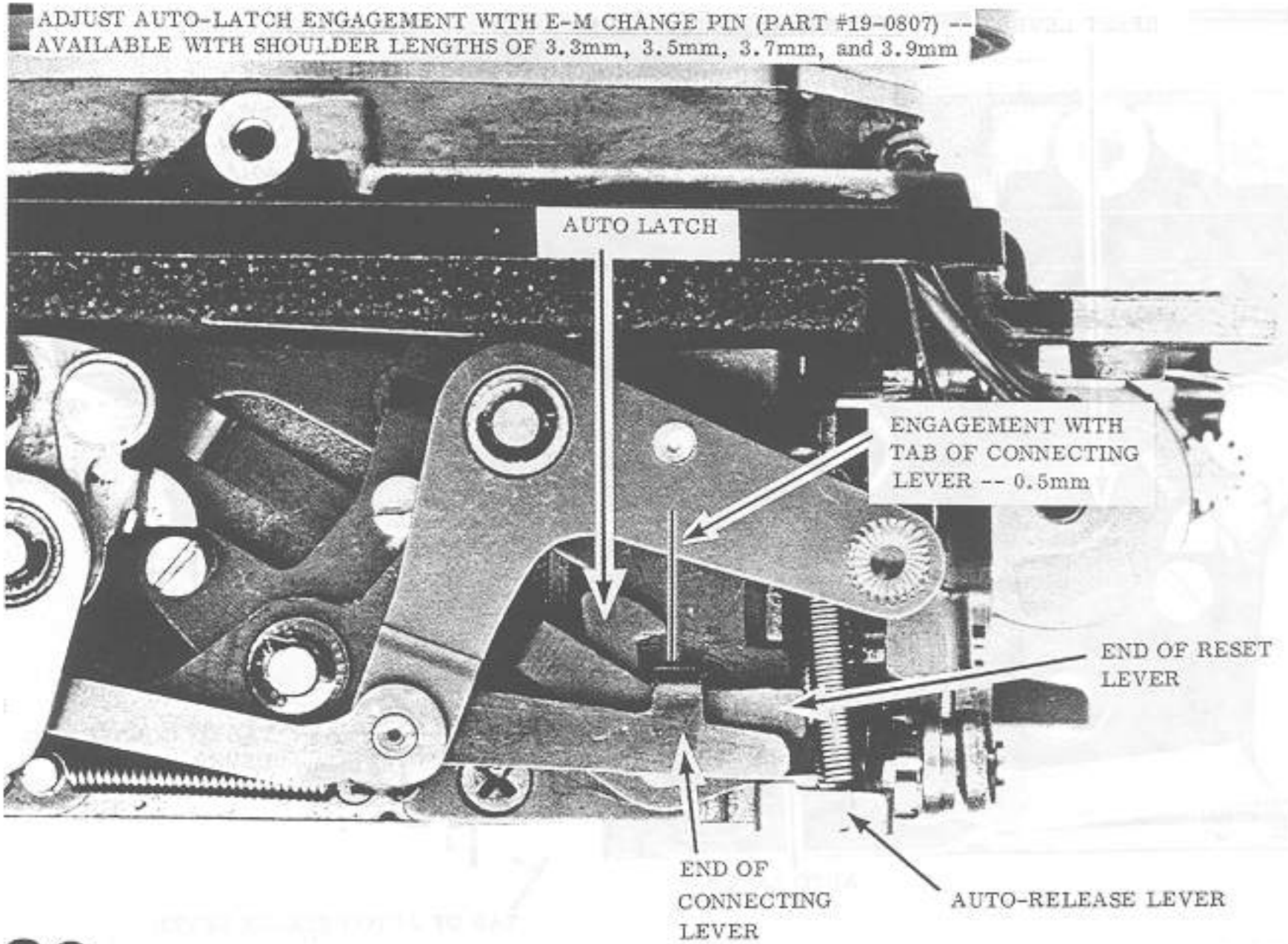

COUPLING TO SCALE LEVER
BODY CONTACTS
(VERSION#2)
RELEASE PAWL
PURPLE (TO VR5)
GOVERNOR RATCHET
BLACK
(TO SW2)
BLUE
(TO PENTAPRISM
CIRCUIT BOARD)
BROWN
(TO PENTAPRISM
CIRCUIT BOARD)


FRONT-PLATE
CONTACT
STRIP
(VERSION #2)
PURPLE
(TO Th2)
ORANGE
(TO VR6)
WHITE
(TO IC1)
LIGHT
BLUE
(TO VR1)
BROWN
(TO CENTER
BATTERY)

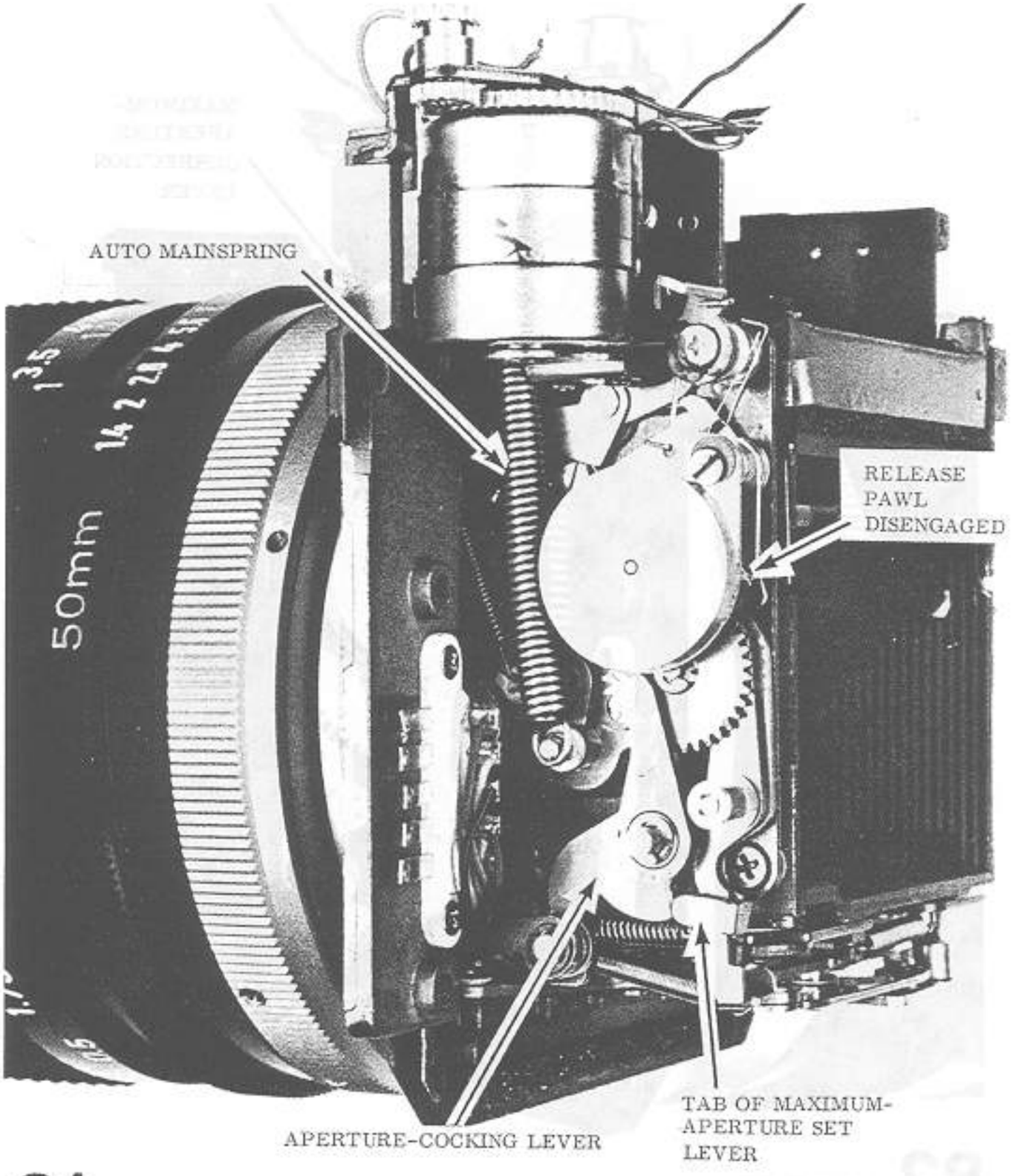

AUTO-SENSING LEVER
MIRROR-LIFTING SPRING
SPRING FOR AUTO-SENSING LEVER
LENS INSTALLED
RESET LEVER



79 DIAPHRAGM-SETTING RING AT MANUAL SETTING

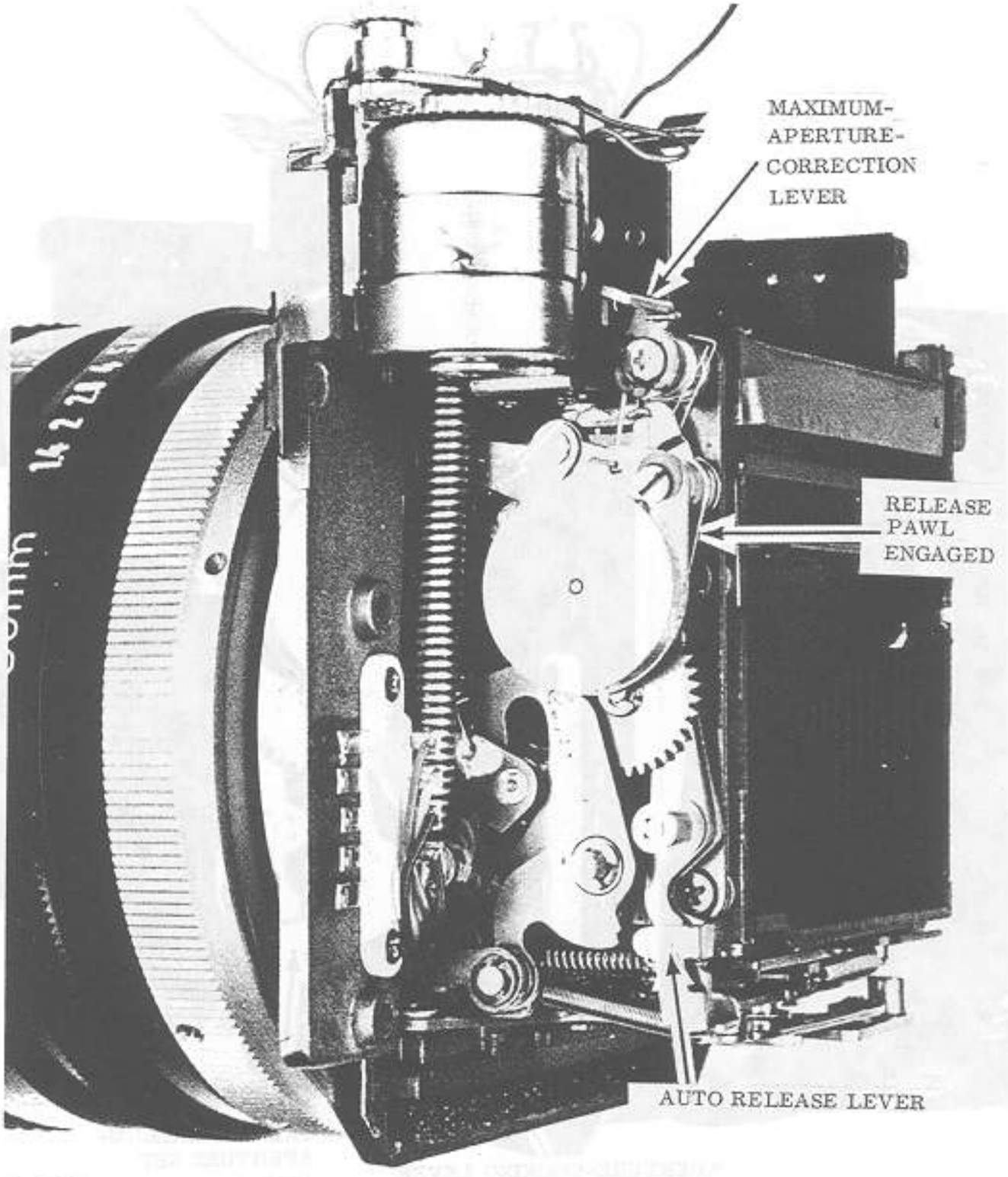

ADJUST AUTO-LATCH ENGAGEMENT WITH E-M CHANGE PIN (PART #19-0807) -- AVAILABLE WITH SHOULDER LENGTHS OF 3.3mm, 3.5mm, 3.7mm, and 3.9mm
AUTO LATCH
ENGAGEMENT WITH TAB OF CONNECTING LEVER -- 0.5mm
END OF RESET LEVER
END OF CONNECTING LEVER
AUTO-RELEASE LEVER

80 DIAPHRAGM-SETTING RING AT AUTOMATIC SETTING

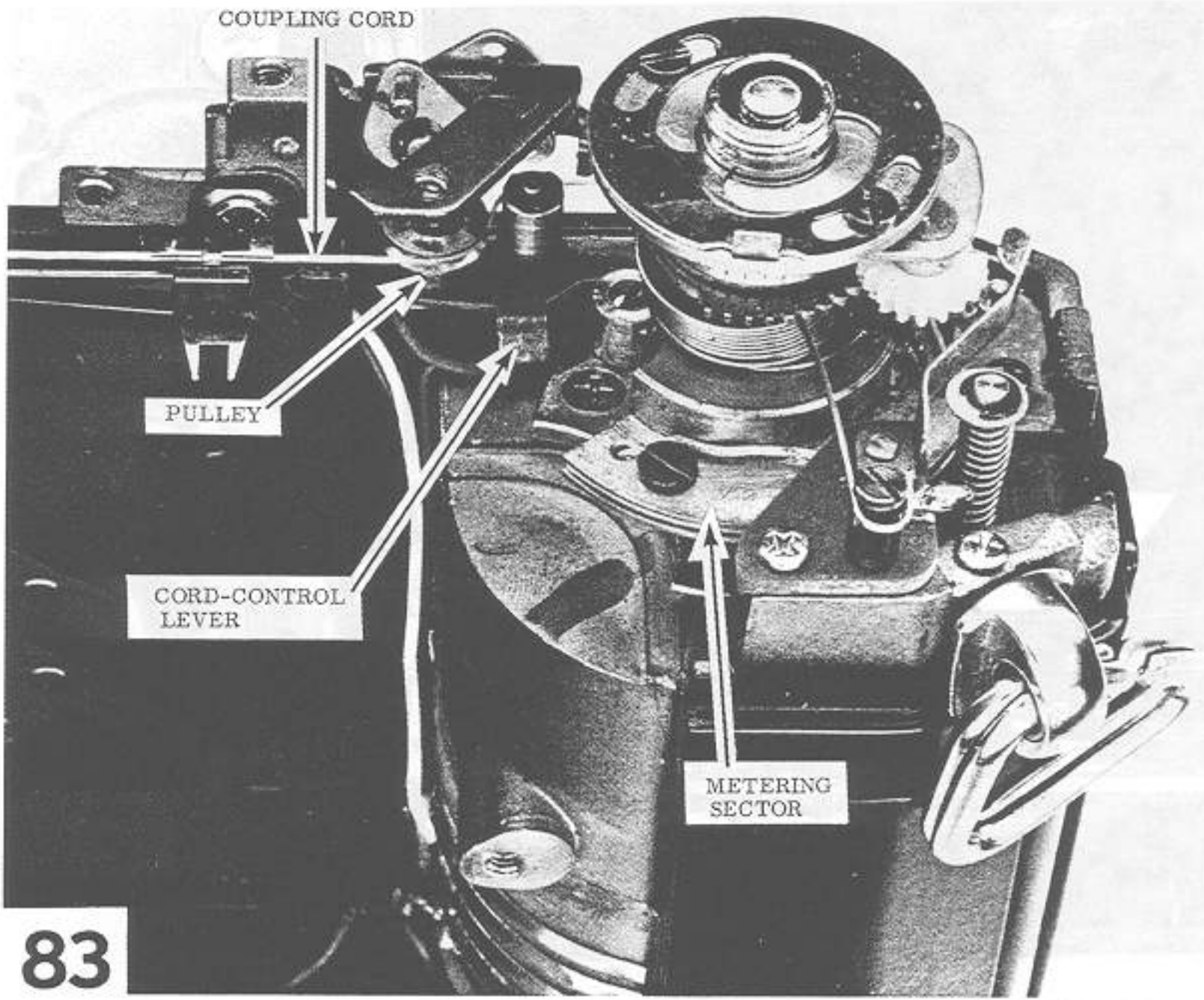


81

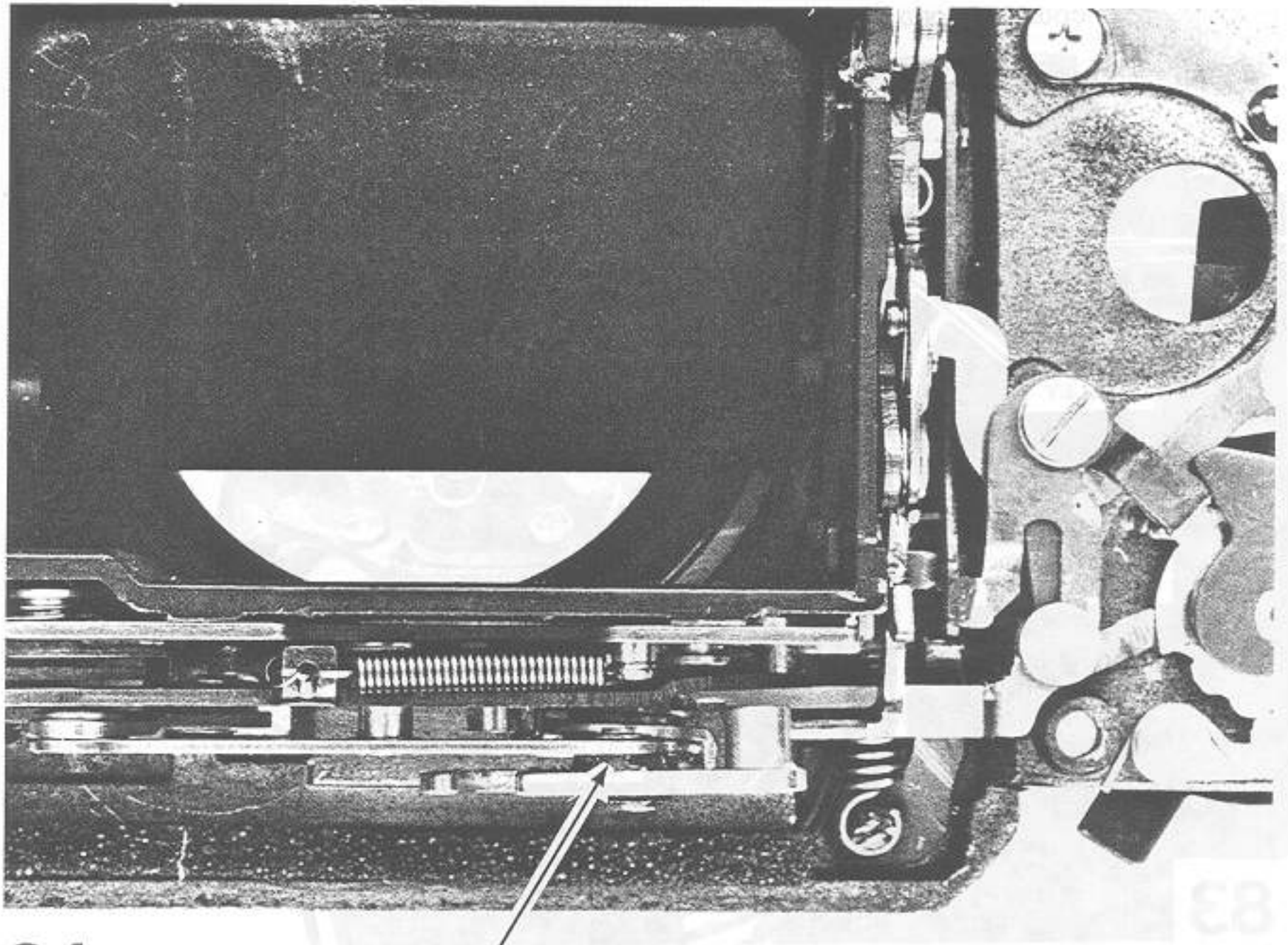
AUTO DIAPHRAGM-CONTROL UNIT RELEASED



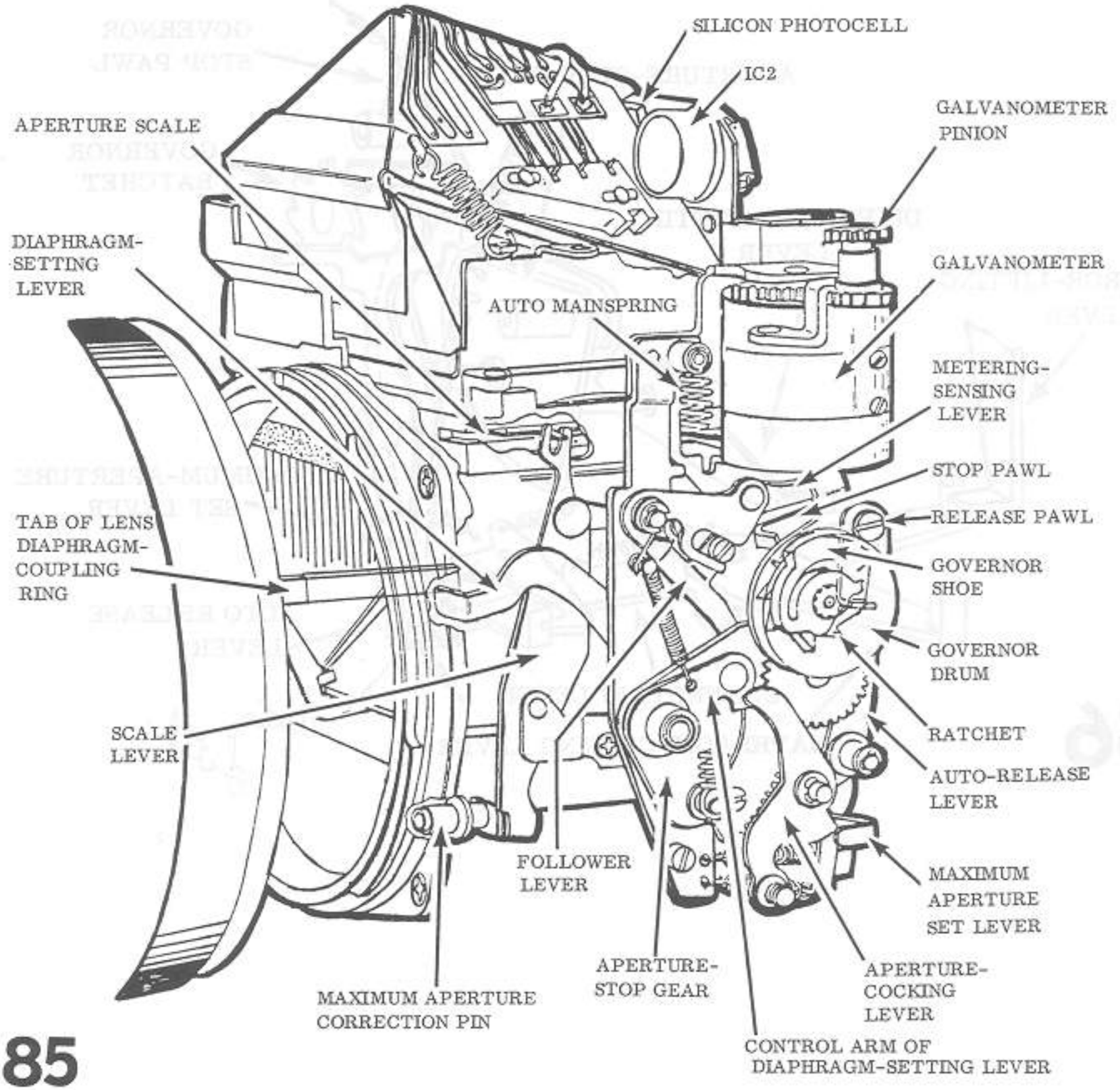
82 AUTO DIAPHRAGM-CONTROL UNIT TENSIONED

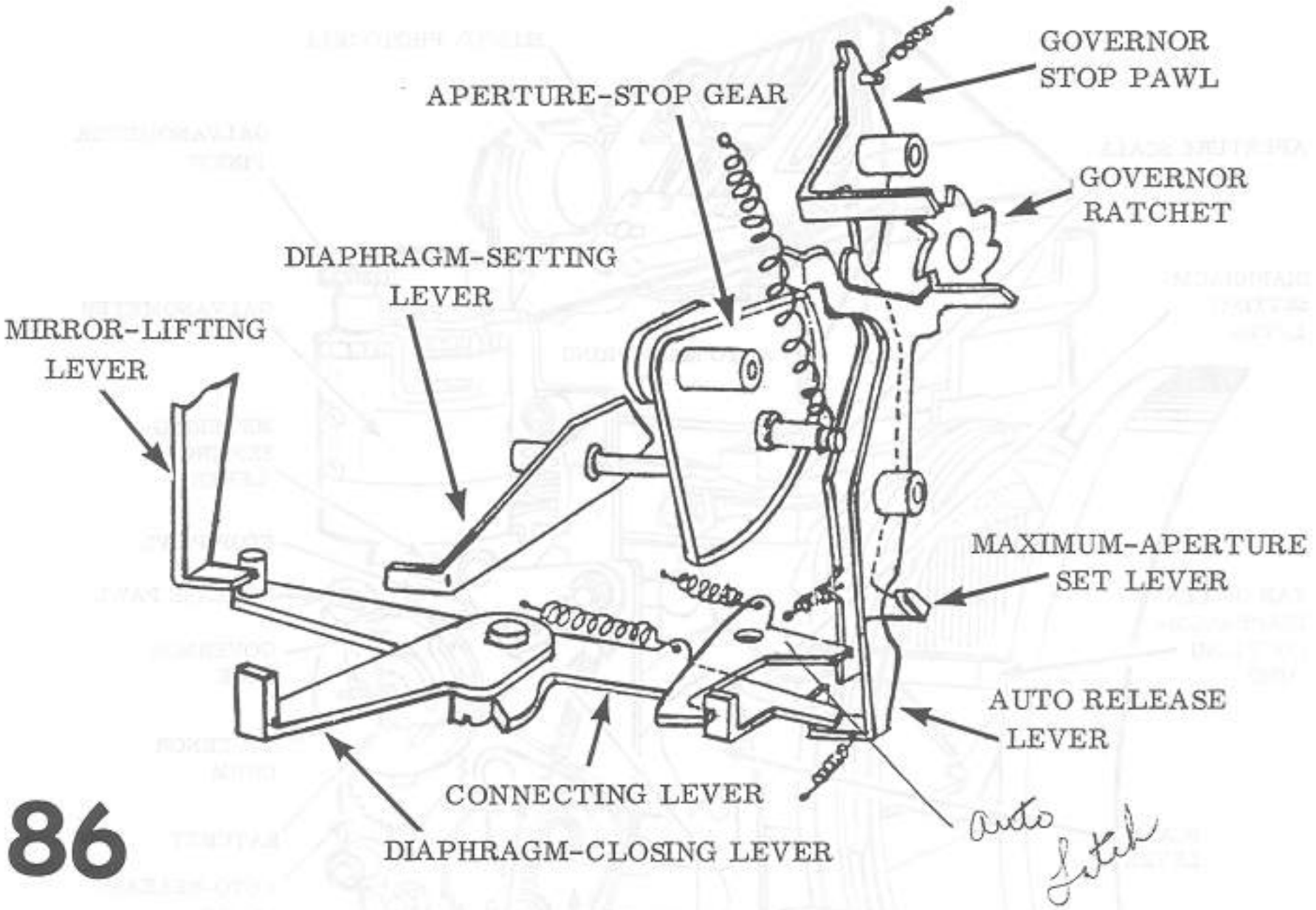


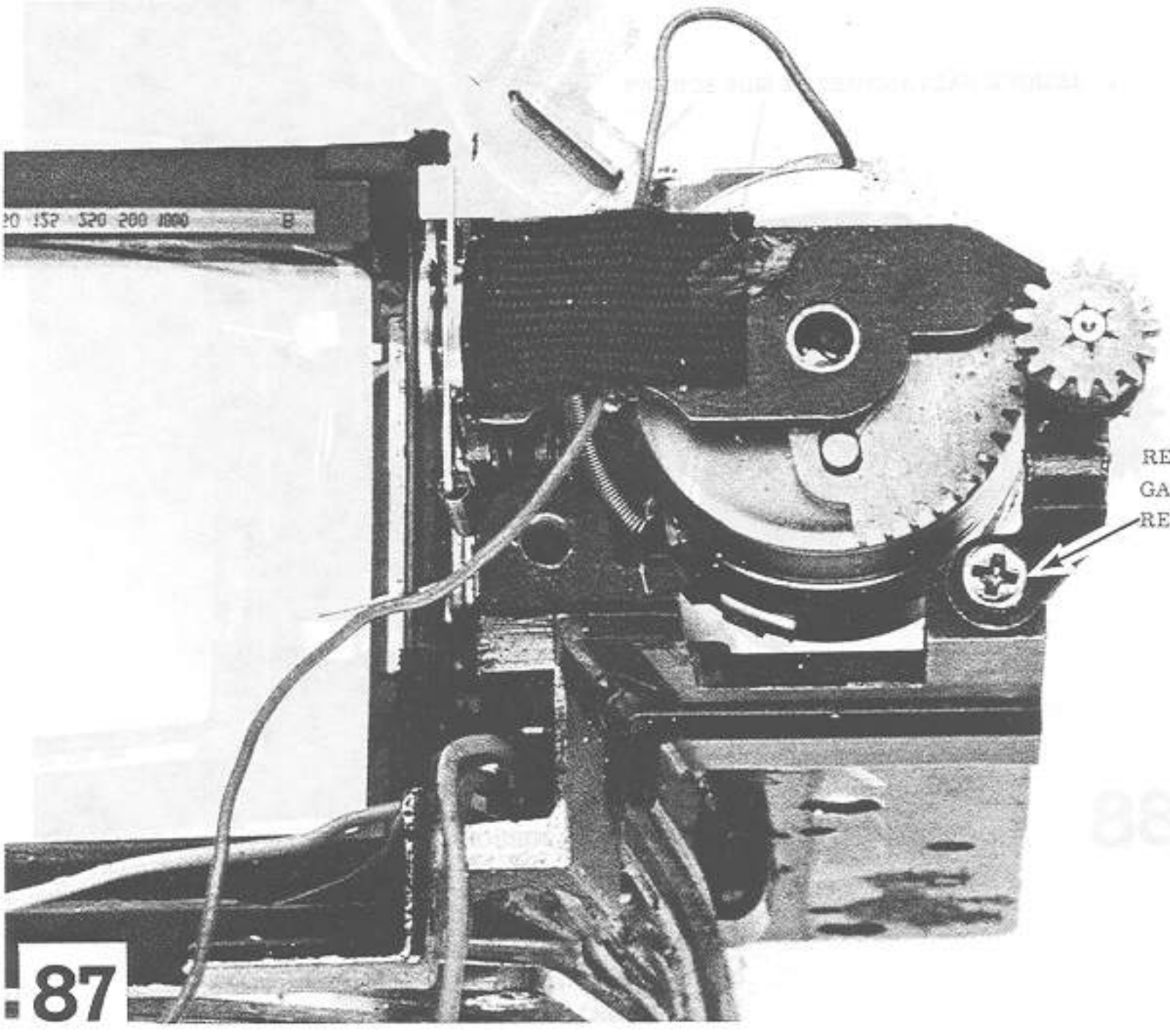
83



84 ECCENTRIC BETWEEN MIRROR-COCKING LEVER AND AUTO LINK -- ADJUST UNTIL THE RELEASE PAWL AND THE MIRROR-RELEASE LEVER ENGAGE SIMULTANEOUSLY


SILICON PHOTOCELL
IC2
APERTURE SCALE
GALVANOMETER PINION
DIAPHRAGM-SETTING LEVER
GALVANOMETER
AUTO MAINSPRING
METERING-SENSING LEVER
STOP PAWL
RELEASE PAWL
TAB OF LENS DIAPHRAGM-COUPLING RING
GOVERNOR SHOE
GOVERNOR DRUM
RATCHET
SCALE LEVER
AUTO-RELEASE LEVER
FOLLOWER LEVER
MAXIMUM APERTURE SET LEVER
APERTURE-STOP GEAR
APERTURE-COCKING LEVER
MAXIMUM APERTURE CORRECTION PIN
CONTROL ARM OF DIAPHRAGM-SETTING LEVER


GOVERNOR
STOP PAWL
APERTURE-STOP GEAR
GOVERNOR
RATCHET
DIAPHRAGM-SETTING
LEVER
MIRROR-LIFTING
LEVER
MAXIMUM-APERTURE
SET LEVER
AUTO RELEASE
LEVER
CONNECTING LEVER
DIAPHRAGM-CLOSING LEVER
auto
stab



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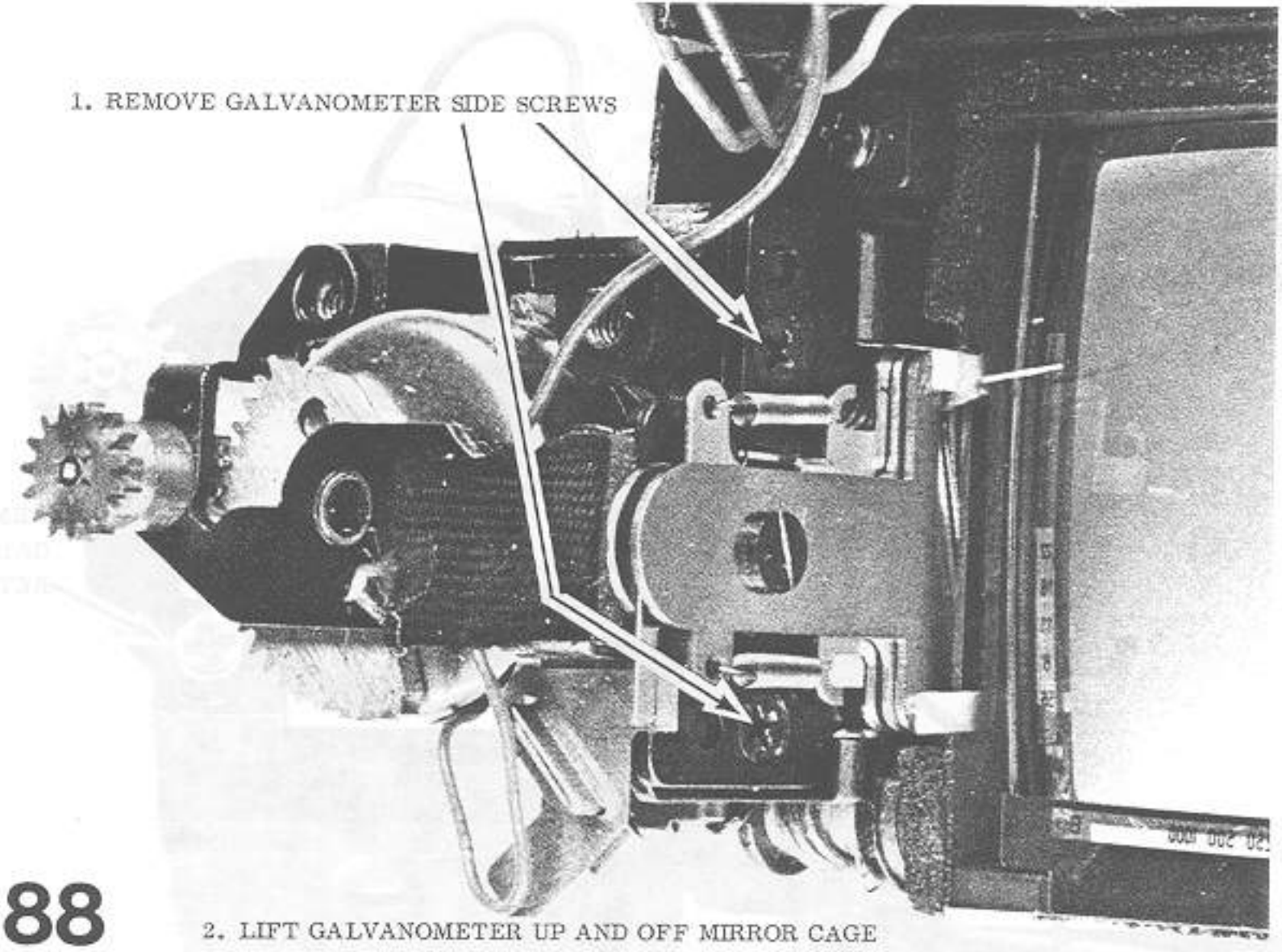
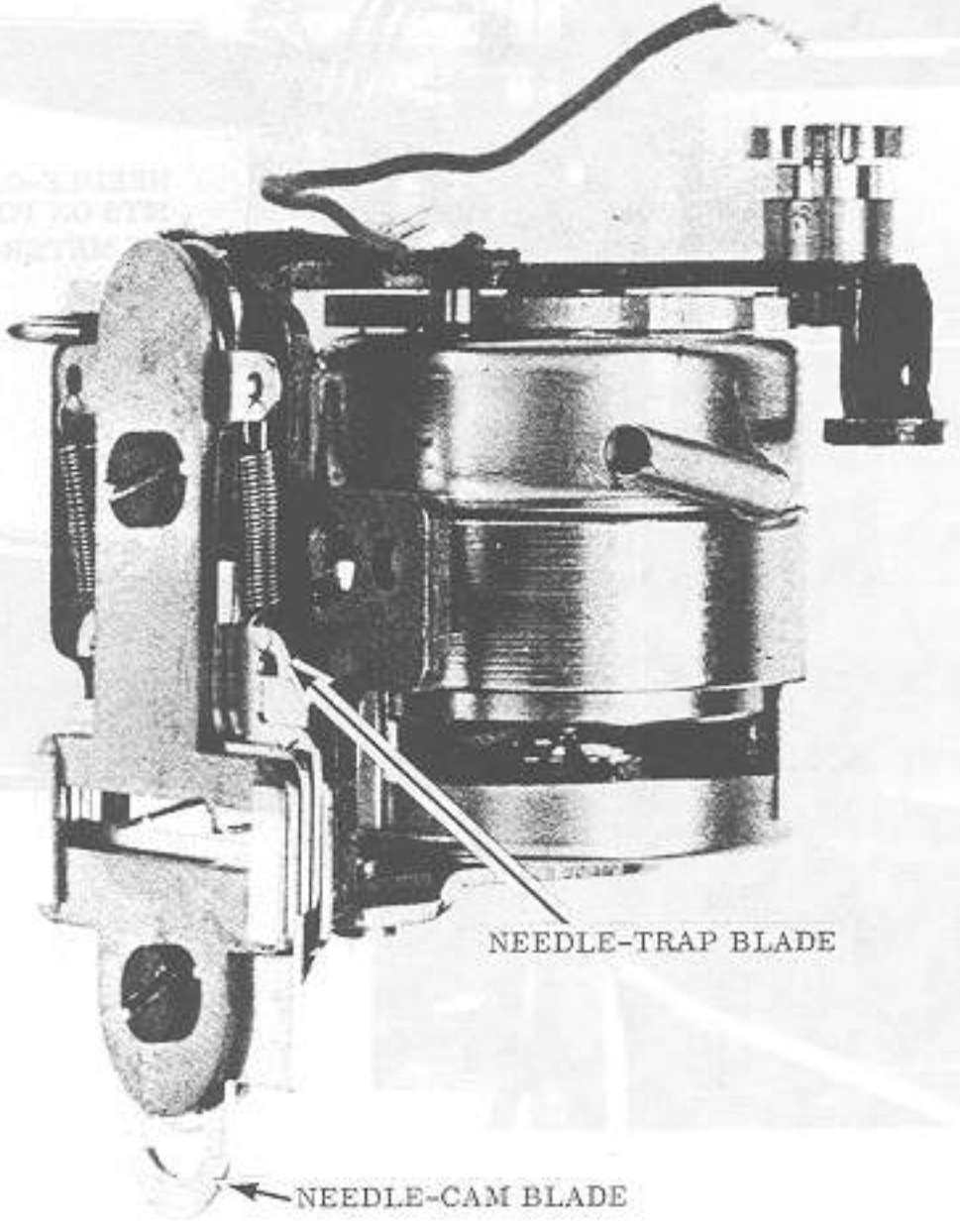
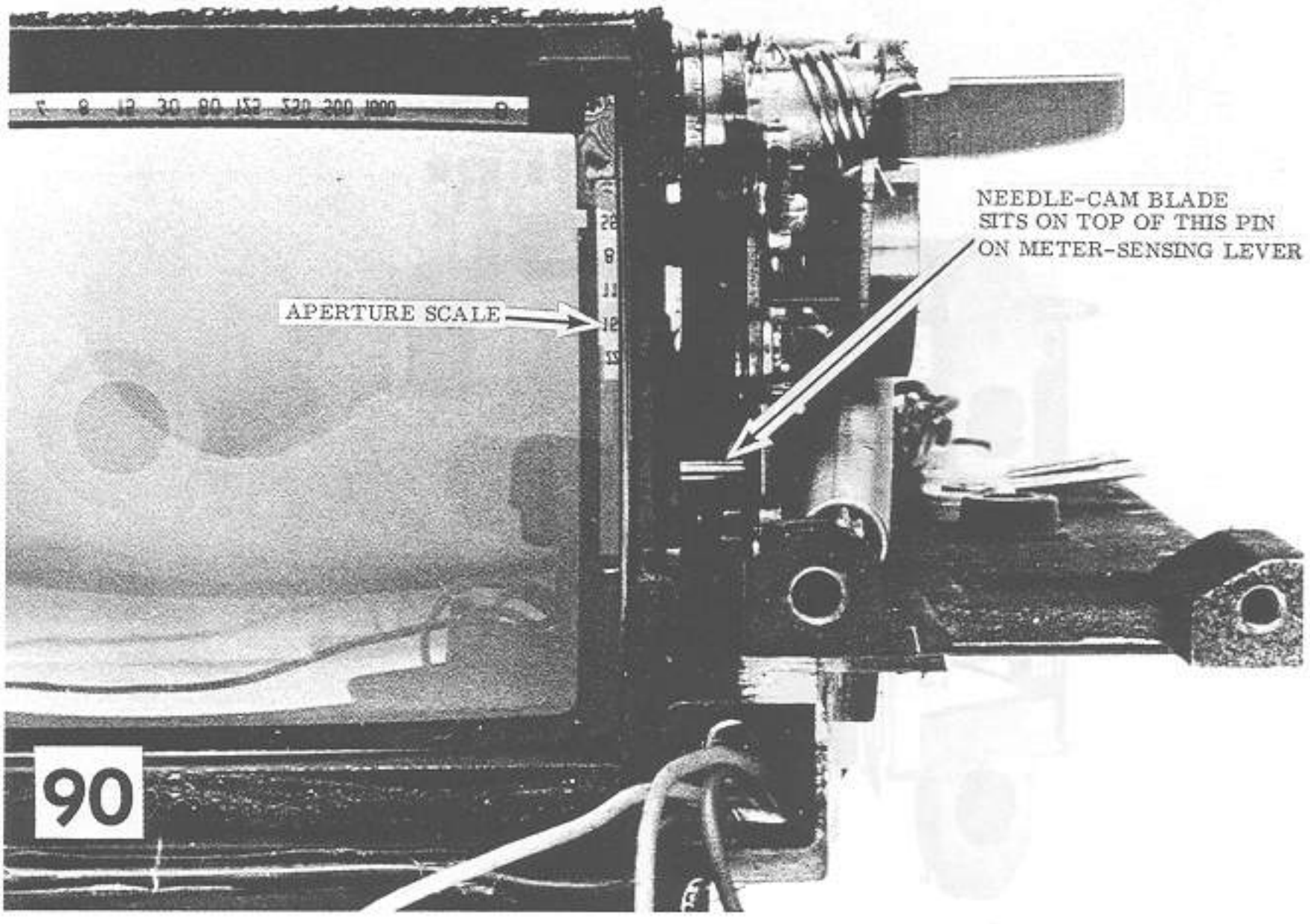
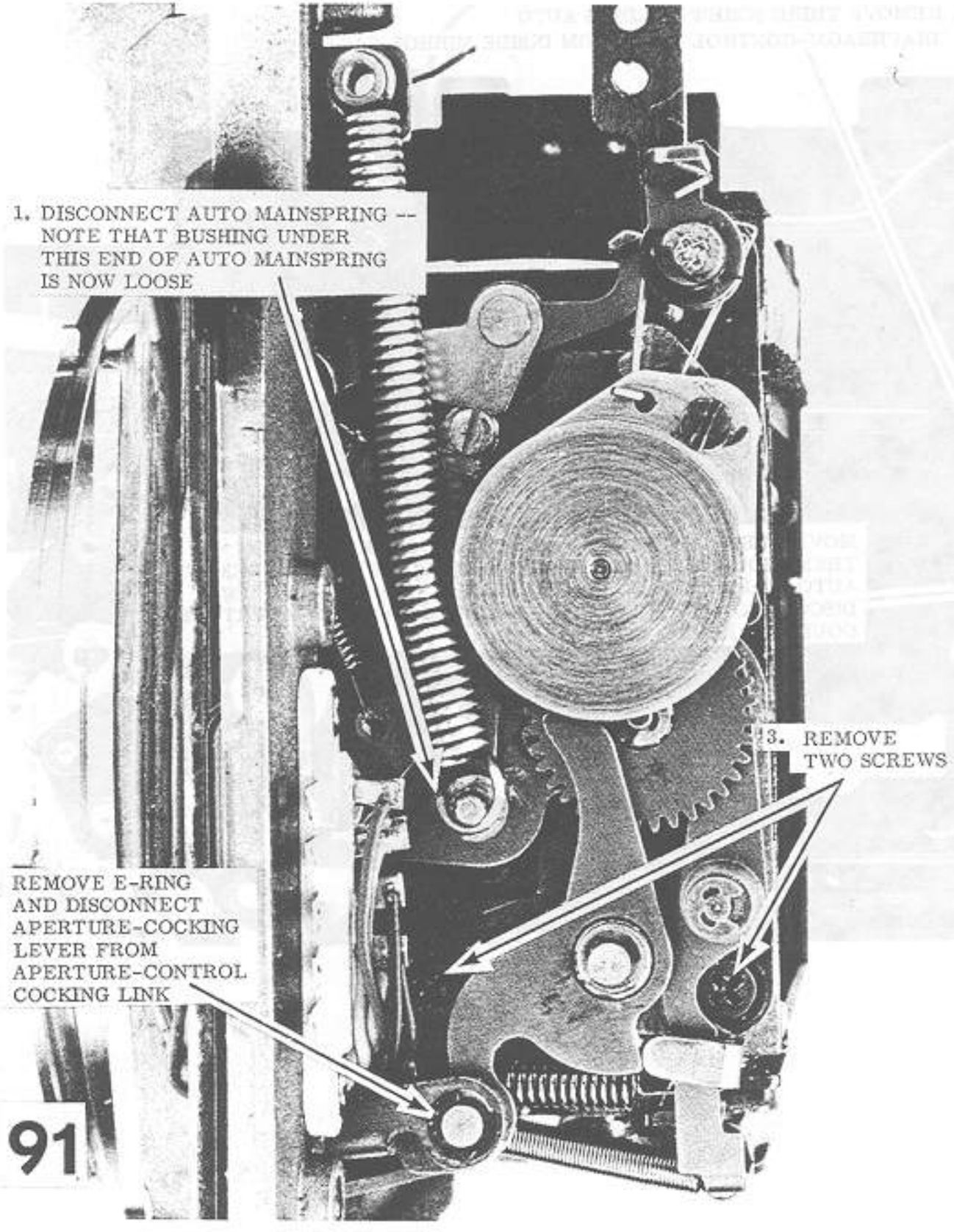
1. REMOVE GALVANOMETER SIDE SCREWS

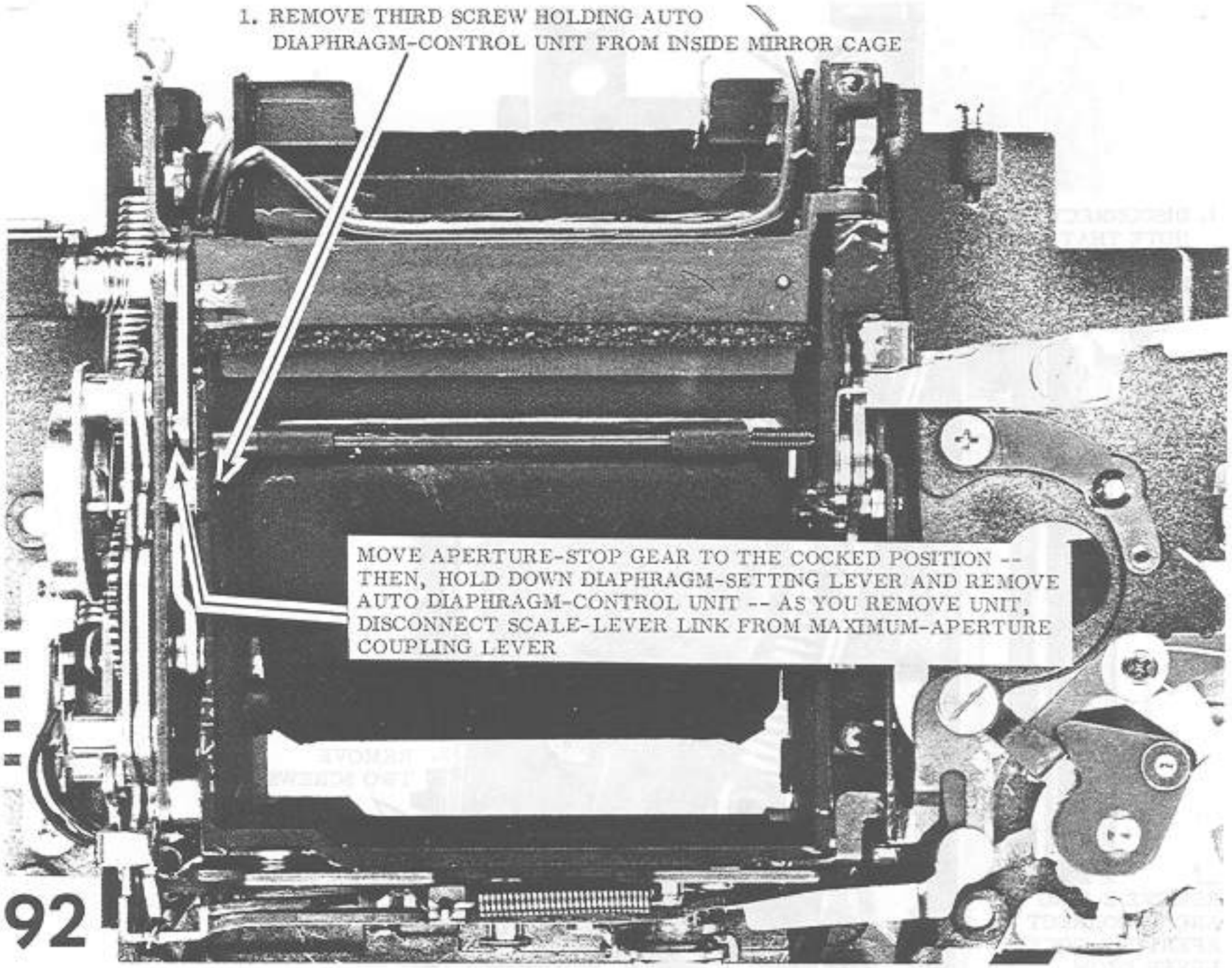


2. LIFT GALVANOMETER UP AND OFF MIRROR CAGE


NEEDLE-TRAP BLADE
NEEDLE-CAM BLADE


APERTURE SCALE
NEEDLE-CAM BLADE
SITS ON TOP OF THIS PIN
ON METER-SENSING LEVER
90


1. DISCONNECT AUTO MAINSPRING -- NOTE THAT BUSHING UNDER THIS END OF AUTO MAINSPRING IS NOW LOOSE
2. REMOVE E-RING AND DISCONNECT APERTURE-COCKING LEVER FROM APERTURE-CONTROL COCKING LINK
3. REMOVE TWO SCREWS


1. REMOVE THIRD SCREW HOLDING AUTO DIAPHRAGM-CONTROL UNIT FROM INSIDE MIRROR CAGE
MOVE APERTURE-STOP GEAR TO THE COCKED POSITION -- THEN, HOLD DOWN DIAPHRAGM-SETTING LEVER AND REMOVE AUTO DIAPHRAGM-CONTROL UNIT -- AS YOU REMOVE UNIT, DISCONNECT SCALE-LEVER LINK FROM MAXIMUM-APERTURE COUPLING LEVER

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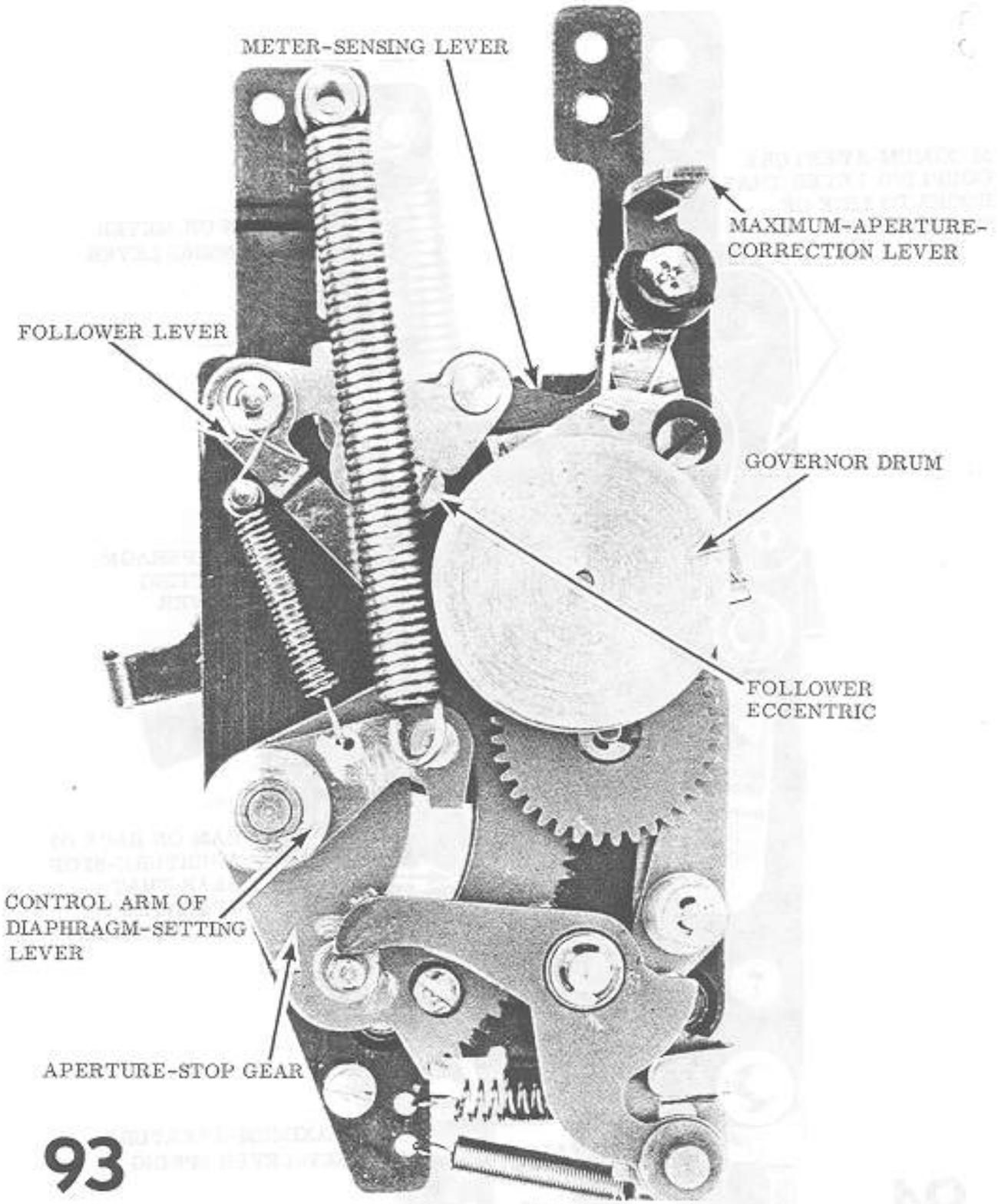
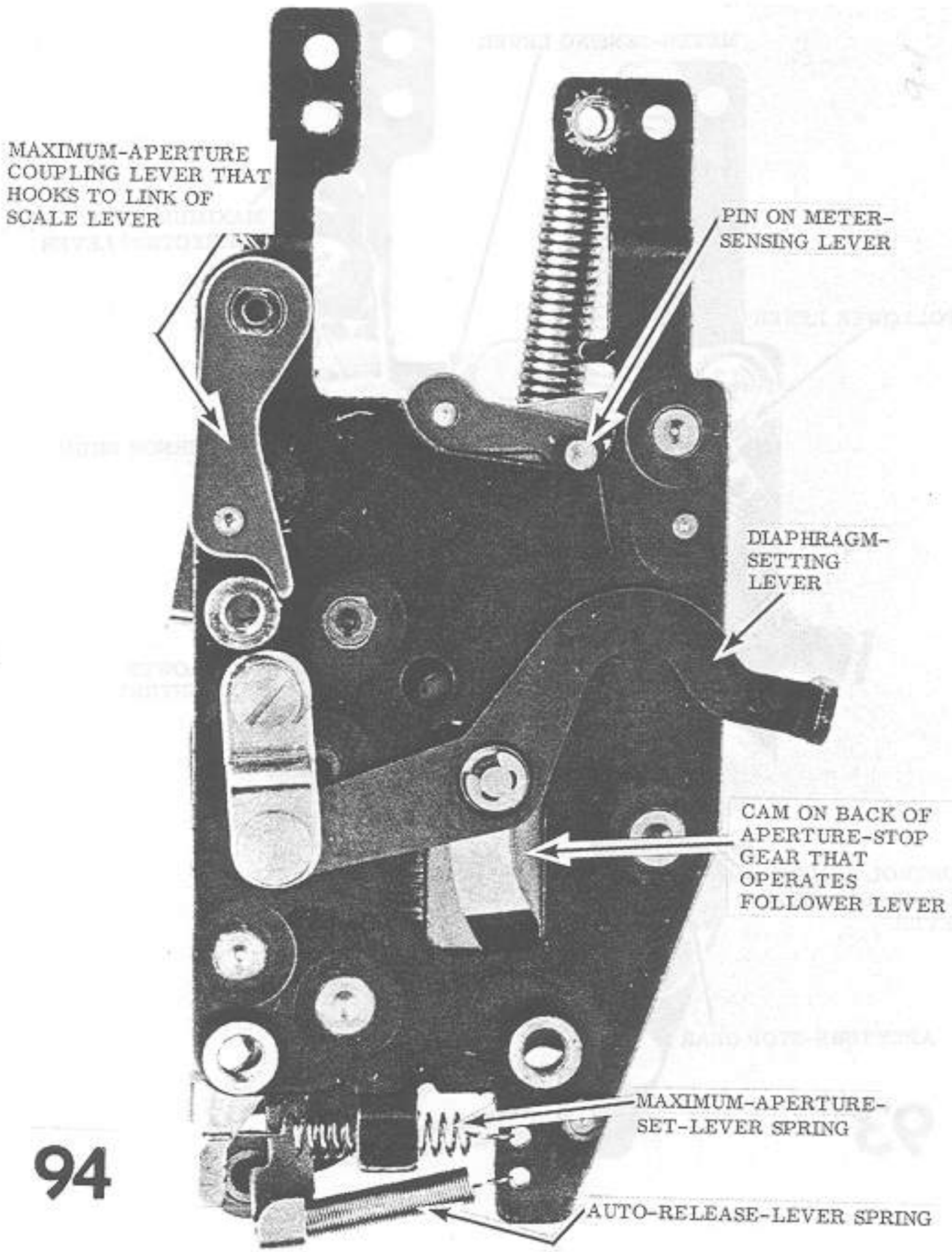
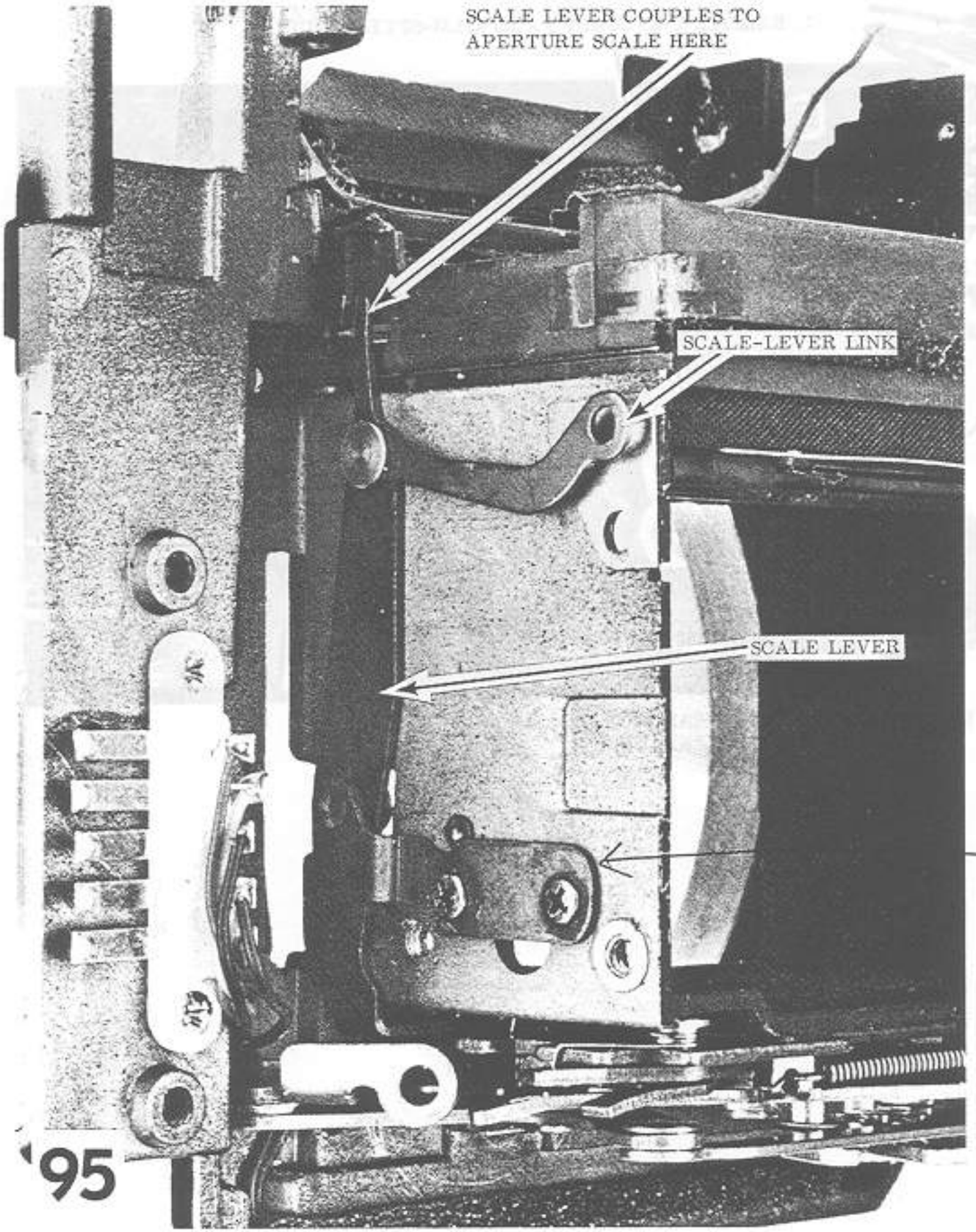
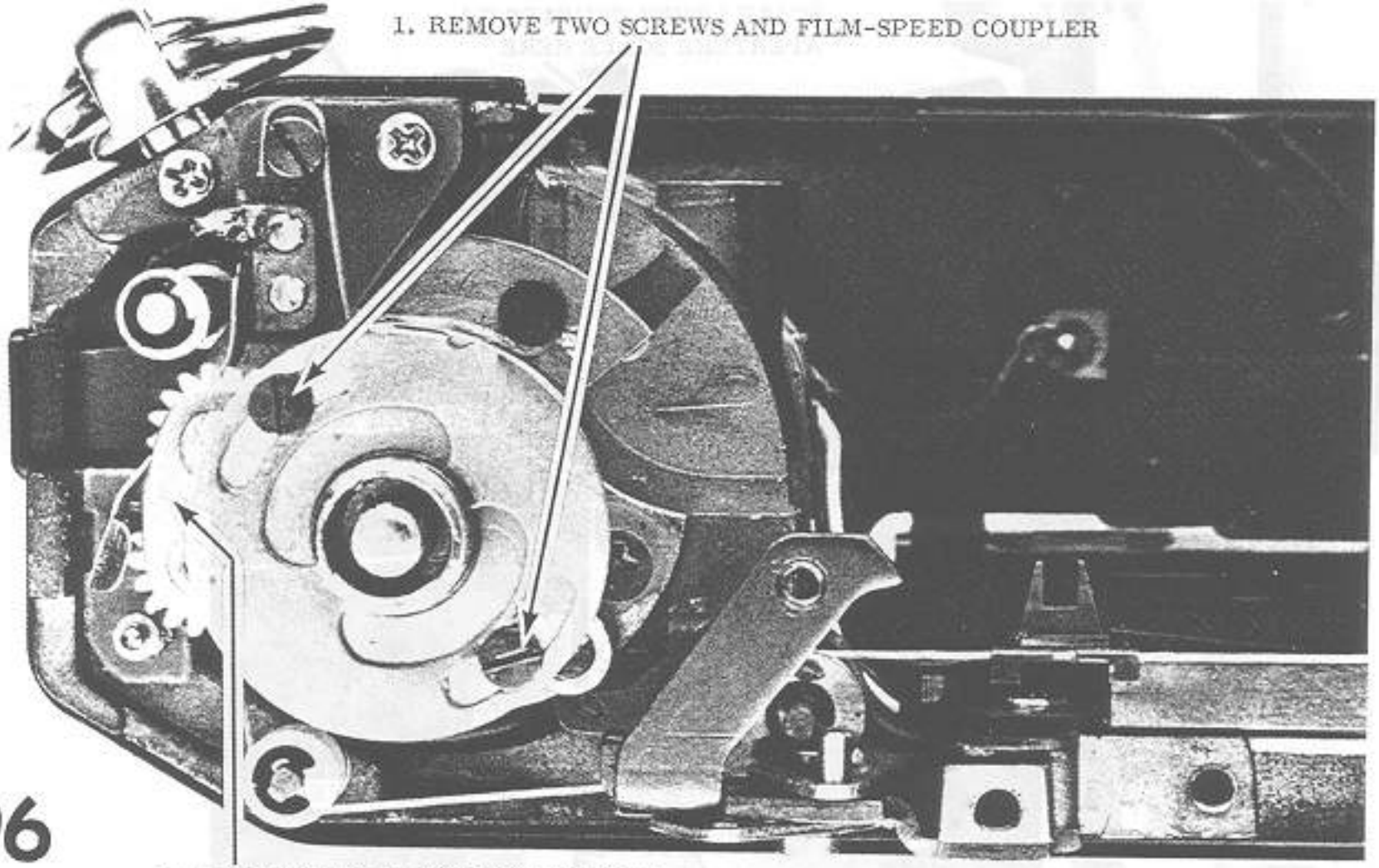
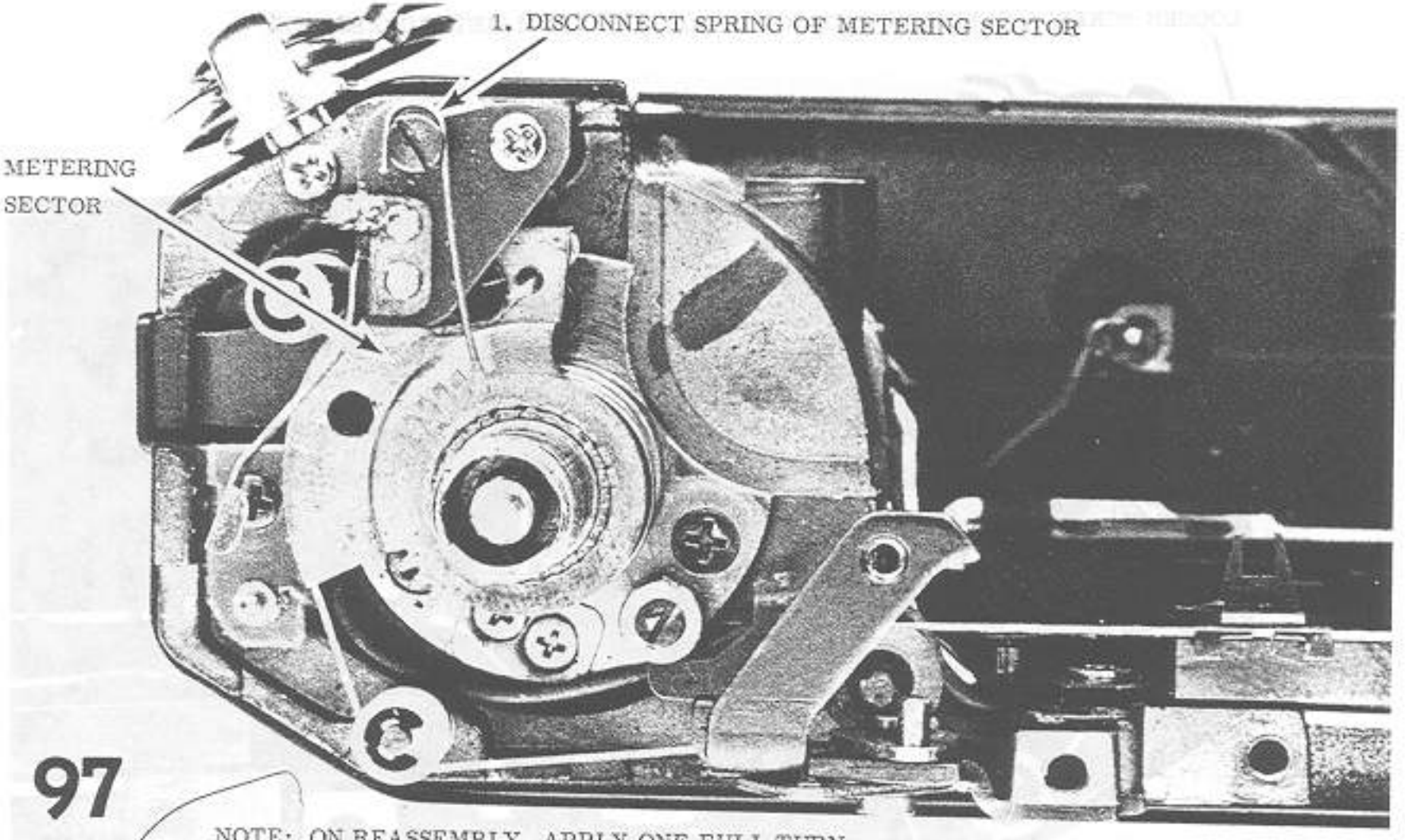

METER-SENSING LEVER
MAXIMUM-APERTURE-CORRECTION LEVER
FOLLOWER LEVER
GOVERNOR DRUM
FOLLOWER ECCENTRIC
CONTROL ARM OF DIAPHRAGM-SETTING LEVER
APERTURE-STOP GEAR


MAXIMUM-APERTURE COUPLING LEVER THAT HOOKS TO LINK OF SCALE LEVER
PIN ON METER-SENSING LEVER
DIAPHRAGM-SETTING LEVER
CAM ON BACK OF APERTURE-STOP GEAR THAT OPERATES FOLLOWER LEVER
MAXIMUM-APERTURE-SET-LEVER SPRING
AUTO-RELEASE-LEVER SPRING



Scribe bracket before removing


1. REMOVE TWO SCREWS AND FILM-SPEED COUPLER
2. LIFT OFF FILM-SPEED GEAR UNIT
(SPACER UNDERNEATH)



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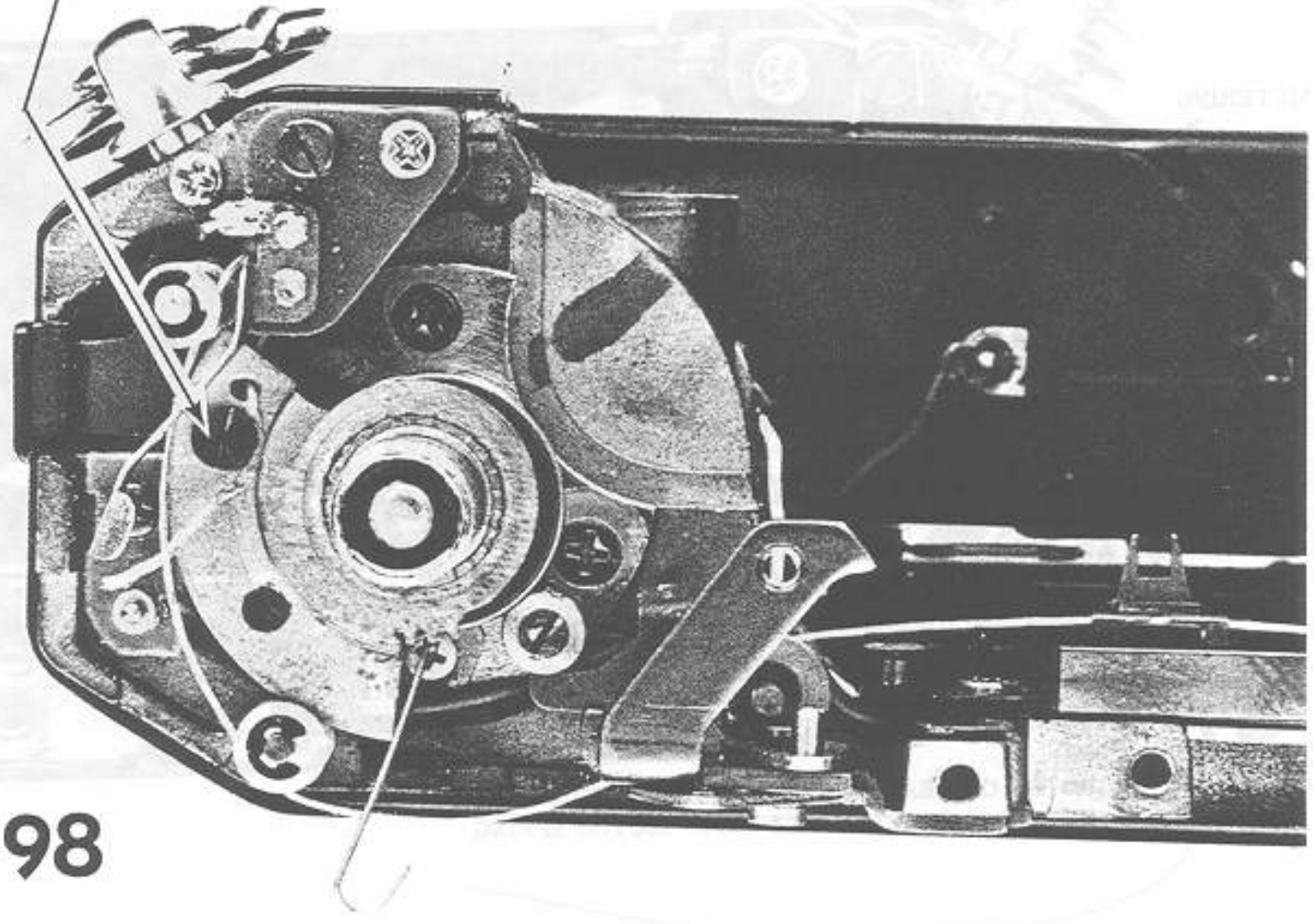
NOTE: ON REASSEMBLY, APPLY ONE FULL TURN
OF TENSION TO THE METERING-SECTOR SPRING

LOOSEN SCREW AND DISCONNECT COUPLING CORD FROM METERING SECTOR



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